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FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
     LIFESCI' ENTERED AT 10:05:11 ON 28 SEP 2004
L1
        1239787 S KINASE?
L2
         455391 S HUMAN AND L1
L3
        6718512 S CLON? OR EXPRESS? OR RECOMBINANT
L4
         224730 S L2 AND L3
         606832 S "FETAL BRAIN" OR CEREBELUM OR "BONE MARROW"
L5
        1358853 S THYMUS OR PANCREAS OR SPLEEN OR TESTIS
L6
L7
           6015 S L4 AND L5
           8577 S L4 AND L6
L8
          13888 S L7 OR L8
L9
           3209 S "NHP"
L10
             13 S L9 AND L10
L11
L12
             11 DUP REM L11 (2 DUPLICATES REMOVED)
                E WALKE D W/AU
L13
            115 S E3-E6
                E HILBUN E/AU
L14
             24 S E3
                E DONOHO G/AU
L15
            149 S E3-E9
                E TURNER A/AU
L16
           1250 S E3
           1508 S L13 OR L14 OR L15 OR L16
L17
L18
              6 S L9 AND L17
L19
              6 DUP REM L18 (0 DUPLICATES REMOVED)
          13888 S L9 AND L4
L20
             11 S L12 AND L10
L21
             34 S L17 AND L4
L22
L23
             20 DUP REM L22 (14 DUPLICATES REMOVED)
                E BELTRANDELRIO H/AU
L24
             84 S E3-E4
                E VANSLIGTENHORST I/AU
                E VAN SLIGTENHORST I/AU
L25
             64 S E3-E4
            133 S L24 OR L25
L26
L27
            57 S L4 AND L26
L28
             0 S L10 AND L27
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         AUG 27
                 status data from INPADOC
                 INPADOC: New family current-awareness alert (SDI) available
NEWS 11
         SEP 01
NEWS 12
                 New pricing for the Save Answers for SciFinder Wizard within
         SEP 01
                 STN Express with Discover!
NEWS 13
         SEP 01
                 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
         SEP 14
                 STN Patent Forum to be held October 13, 2004, in Iselin, NJ
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         SEP 27
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=> s kinase?

L1 1239787 KINASE?

=> s human and l1

4 FILES SEARCHED...

L2 455391 HUMAN AND L1

=> s clon? or express? or recombinant

3 FILES SEARCHED...

L3 6718512 CLON? OR EXPRESS? OR RECOMBINANT

=> s 12 and 13

L4 224730 L2 AND L3

=> s "fetal brain" or cerebelum or "bone marrow" or "pancreas" or "thymus" or "spleen"

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SEARCH ENDED BY USER

=> s "fetal brain" or cerebelum or "bone marrow"

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=> s thymus or pancreas or spleen or testis

L6 1358853 THYMUS OR PANCREAS OR SPLEEN OR TESTIS

=> s 14 and 14

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SEARCH ENDED BY USER

=> s 14 and 15

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L7
          6015 L4 AND L5
=> s 14 and 16
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     LIFESCI' ENTERED AT 10:05:11 ON 28 SEP 2004
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L1
L2
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L3
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         606832 S "FETAL BRAIN" OR CEREBELUM OR "BONE MARROW"
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L12
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      ANSWER 1 OF 11 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
L12
      DUPLICATE 1
ACCESSION NUMBER: 2003-00762 BIOTECHDS
                  Novel polynucleotides encoding human proteins that
TITLE:
                  share sequence similarity with animal kinases,
                  useful for drug screening diagnosis and in gene therapy of
                  biological disorders;
                     vector-mediated gene transfer, expression in
                     host cell and transgenic animal for recombinant
                     protein production, drug screening and gene therapy
                  TURNER C A; MATHUR B
AUTHOR:
PATENT ASSIGNEE: LEXICON GENETICS INC
PATENT INFO:
                  WO 2002031129 18 Apr 2002
APPLICATION INFO: WO 2001-US32010 11 Oct 2001
PRIORITY INFO: US 2000-239821 12 Oct 2000; US 2000-239821 12 Oct 2000
DOCUMENT TYPE:
                  Patent
LANGUAGE:
                  English
                  WPI: 2002-583341 [62]
OTHER SOURCE:
      DERWENT ABSTRACT:
ΔR
      NOVELTY - An isolated nucleic acid molecule (I) comprising a 2301 (S1) or
      2298 (S2) base pair sequence, encoding novel human proteins (
      NHPs) of 766 (S3) or 765 (S4) residue amino acid sequences, all
      given in the specification, and sharing sequence similarity with animal
      kinases, or a nucleic acid molecule that encodes (S3) and
      hybridizes under stringent conditions to (S1) or its complement, is new.
           WIDER DISCLOSURE - (1) novel human membrane proteins (
      NHPs) encoded by (I), that share sequence similarity with animal
      kinases; (2) host cell expressing systems comprising
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(I); (3) antibodies to NHP and anti-idiotypic antibodies; (4) fusion proteins comprising NHP; (5) genetically engineered animals that either lack or over express (I); (6) antagonists and agonists of NHP; (7) compounds that modulate the expression or activity NHP; (8) identifying compounds that modulate, expression and/or activity of NHP; (9) degenerate nucleic acid variants of (I); (10) vectors that contain (I); and (11) nucleotide sequences (e.g. antisense and ribozyme molecules) that inhibit expression of (I).

BIOTECHNOLOGY - Preferred Protein: NHPs share structural similarity with animal kinases, calcium/calmodulin-dependent protein kinases and mitogen activated kinases. They are expressed in human cell lines and human fetal brain, brain, pituitary, spinal cord, testis, adipose and esophagus cells.

ACTIVITY - None given.

MECHANISM OF ACTION - Gene therapy. No biological data is given. USE - NHP oligonucleotides are useful as hybridization probes for screening libraries and assessing gene expression patterns. Sequences derived from regions adjacent to the intron/exon boundaries of NHP gene can be used to design primers for use in amplification assays to detect mutations within the exons, splice sites, introns that can be used in diagnostics and pharmacogenomics. NHP nucleotide sequences are useful for drug screening effective in the treatment of symptomatic or phenotypic manifestations of perturbing the normal function of NHP in the body, and nucleotide constructs encoding NHP products are used to genetically engineer host cells to express NHP products in vivo. These genetically engineered cells function as bioreactors in the body delivering a continuous supply of a NHP, a NHP peptide, or a NHP fusion protein to the body. Nucleotide construct encoding NHP products are also useful in gene therapy for modulating NHP expression and to produce genetically engineered host cells to express NHP products in vivo. The host cells allow not only for the identification of compounds that bind to the endogenous receptor/ligand of a NHP, but can also identify compounds that trigger NHP-mediated activities or pathways. NHP nucleotide sequences may also be used as part of ribozyme and/or triple helix sequences that are useful for NHP gene regulation. When the unique NHP sequences are knocked-out they provide a method of identifying phenotypic expression of the particular gene as well as a method of assigning function to previously unknown genes. The unique NHP sequences are useful for the identification of protein coding sequence, mapping a unique gene to a particular chromosome and to identify mutations associated with a particular disease and also as a diagnostic or prognostic assay. These sequences identify biologically verified exon splice junctions as opposed to splice junctions that may been bioinformatically predicted from genomic sequence alone. The sequences are also useful as additional DNA markers for restriction fragment length polymorphism (RFLP) analysis, in forensic biology, and in defining and monitoring both drug action and toxicity. The encoded NHP polypeptides are useful for generating antibodies, as reagents in diagnostic assays, for identifying other cellular gene products related to NHP and as reagents in assays for screening for compounds that are useful in the treatment of mental, biological or medical disorders and diseases. Addressable arrays comprising NHP sequences are useful to identify and characterize the temporal and tissue specific expression of a gene. The NHP sequences can be used in microarrays or other assay formats, to screen collections of genetic material from patients who have a particular medical condition. (41 pages)

L12

DUPLICATE 2

ACCESSION NUMBER: 2002-12398 BIOTECHDS

TITLE:

Novel polynucleotide encoding novel human protein sharing structural similarity with animal kinases

e.g. serine-threonine, calcium/calmodulin-dependent, and

myosin light chain kinases, useful as probes and

primers;

vector-mediated gene transfer, expression in host cell, antibody, antisense oligonucleotide and

ribozyme for recombinant protein production,

drug screening and gene therapy

AUTHOR: FRIDDLE C J; HILBUN E; NEPOMNICHY B; HU Y

PATENT ASSIGNEE: LEXICON GENETICS INC PATENT INFO: WO 2002018555 7 Mar 2002 APPLICATION INFO: WO 2000-US26776 31 Aug 2000 PRIORITY INFO: US 2000-229280 31 Aug 2000

DOCUMENT TYPE: Patent LANGUAGE:

English

OTHER SOURCE: WPI: 2002-292200 [33]

DERWENT ABSTRACT:

NOVELTY - An isolated novel human protein (NHP) encoding nucleic acid, where the NHP shares structural similarity with animal kinases e.g. serine-threonine, calcium/calmodulin-dependent, and myosin light chain kinases, is new.

DETAILED DESCRIPTION - An isolated novel human protein (NHP) encoding nucleic acid, where the NHP shares structural similarity with animal kinases e.g. serine-threonine, calcium/calmodulin-dependent, and myosin light chain kinases, is new. The NHP nucleic acid comprises a nucleotide sequence encoding a fully defined sequence of 683 (S2), 654 (S4), 388 (S7) and 398 (S9) amino acids as given in the specification, and which hybridizes under stringent conditions to a fully defined sequence of 2052 (S1) or 1167 (S6) nucleotides as given in specification, or its complement. An INDEPENDENT CLAIM is also included for an isolated nucleic acid molecule that comprises at least 24 contiguous bases of (S6).

WIDER DISCLOSURE - The following are disclosed: (1) novel human proteins (NHP) having a fully defined sequence of (S2), (S4), (S7) or (S9) encoded by NHP polynucleotides where the proteins are useful for generating antibodies, reagents in diagnostic assays, identification of other cellular gene products related to NHP, as reagents in assays for screening compounds that can be used as pharmaceutical reagents for treating mental, biological or medical disorders and diseases; (2) a nucleic acid selected from: (a) a sequence that encode mammalian homologs of NHP including the specifically described NHPs and the NHP gene products (b) a sequence that encode one or more portions of the NHPs that correspond to functional domains, and the polypeptide products specified by such nucleotide sequences (c) a sequence that encode mutant versions, engineered or naturally occurring, of the described NHPs in which all or part of at least one domain is deleted or altered, and the polypeptide products specified by such nucleotide sequences (d) a sequence that encode fusion proteins containing a coding region from an NHP or one of its domains (e.g. receptor or ligand binding domain) fused to another peptide or polypeptide, or (e) therapeutic or diagnostic derivatives of the polynucleotides; (3) agonist and antagonist of NHPs; (4) compounds that modulate the expression or activity of NHPs and nucleotide sequences (nucleotide constructs) that can be used to inhibit the expression of NHP (e.g., antisense, ribozyme molecules, etc.,) or to promote the expression of NHP; (5) transgenic animals that express NHP transgene or knock-outs that do not express a functional NHP; (6)

processes of identifying compounds that modulate i.e., act as agonist or antagonist of NHP expression and/or NHP activity; (7) antibodies against NHP and idiotypic antibodies against anti-NHP antibodies; (8) fusion proteins comprising NHP protein; (9) degenerate nucleic acid variants of the NHP polynucleotide sequences; (10) DNA vectors that contain any of the NHP coding sequences and/or their complements; (11) genetically engineered host cells expressing NHP coding sequences operatively associated with a regulatory element; (12) analogues, derivatives and NHP homologues from other species; (13) proteins that are functionally equivalent to NHP encoded by the above described nucleotide sequences; and (14) pharmaceutical formulations comprising the NHP polynucleotide sequences.

BIOTECHNOLOGY - Isolation: The NHP polynucleotides were complied from sequences available in GENBANK, and cDNAs generated from kidney, testis, trachea, esophagus, pituitary, human gene trapped products ((S2) and (S4)) or bone marrow and skeletal muscle mRNAs.

ACTIVITY - None given. No biological data is given. MECHANISM OF ACTION - Gene therapy. No biological data is given.

USE - The NHP polynucleotide sequences that encode NHPs sharing structural similarity with animal kinases including NIMA (never in mitosis A) related kinases, serine-threonine kinases, calcium/calmodulin-dependent kinases, and myosin light chain kinases, when knocked out provide a method for identifying phenotypic expression of the particular gene as well as a method of assigning function to previously unknown genes, for identifying coding sequence and mapping a unique gene to a particular chromosome and in the identification of biologically relevant splice junctions. Complementary sequences of (I) that hybridize to (I) can be used in conjunction with PCR to screen libraries, isolate clones and prepare cloning and sequencing templates. Such oligonucleotides can also be used as hybridization probes for screening libraries, for assessing gene expression patterns. The probes are useful for identification, selection and validation of novel molecular targets for drug discovery. Labeled NHP nucleotide probes can be used to screen a human genomic library which is helpful for identifying polymorphisms, determining the genomic structure of a given locus/allele and designing diagnostic tests. The probe sequences also have use in defining and monitoring both drug action and toxicity. Oligonucleotides complementary to NHPs may encode or act as NHP antisense molecules, or may be used as part of ribozyme and/or triple helix sequences. Addressable arrays comprising the NHP polynucleotides can be used to identify and characterize the temporal and tissue expression of a gene. The use of addressable arrays comprising the NHP polynucleotide sequence provide detailed information about transcriptional changes involved in specific pathway, potentially leading to the identification of novel components or gene functions that manifest themselves as novel phenotypes. Microarray formats comprising NHP polynucleotide sequences can be used to screen collections of genetic material from patients who have a particular medical condition. The sequences are also useful for identifying mutations associated with a particular disease and also as a prognostic or diagnostic assay. (I) is also useful in the molecular mutagenesis/evolution of proteins that are at least partially encoded by the described novel sequences.

EXAMPLE - None given. (46 pages)

L12 ANSWER 3 OF 11 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN ACCESSION NUMBER: 2003-01894 BIOTECHDS

TITLE: Novel polynucleotide encoding human proteins that are structurally similar to animal kinases, useful

are structurally similar to animal kinases, useful for drug screening, diagnosis, in gene therapy of disorders

and diseases e.g. cancer and pharmacogenomic applications;
 recombinant enzyme protein production and sense
and antisense sequence use in disease therapy and gene

therapy

AUTHOR: YU X; MIRANDA M; FRIDDLE C J

PATENT ASSIGNEE: LEXICON GENETICS INC
PATENT INFO: WO 2002059325 1 Aug 2002
APPLICATION INFO: WO 2001-US50497 20 Dec 2001

PRIORITY INFO: US 2000-258335 27 Dec 2000; US 2000-258335 27 Dec 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-599796 [64]

AB DERWENT ABSTRACT:

NOVELTY - An isolated nucleic acid molecule (I) comprising a nucleotide sequence encoding a novel human protein (NHP) of 2054 (S1) or 1958 (S2) amino acids given in specification, that share structural similarity with animal kinases, including serine-threonine kinases, particularly Citron rho-interacting kinases, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (1) an isolated nucleic acid molecule (II) comprising a nucleotide sequence that encodes (S1) and hybridizes under stringent conditions to a sequence (S3) of 6165 base pairs given in the specification, or its complement; and (2) an isolated nucleic acid molecule (III) comprising at least 24 contiguous bases of (S3).

WIDER DISCLOSURE - Disclosed are: (1) novel human proteins (NHPs) encoded by (I), that share structural similarity with animal kinases; (2) host cell expressing systems comprising (I); (3) antibodies to NHP and anti-idiotypic antibodies; (4) fusion proteins comprising NHP; (5) genetically engineered animals that either lack or over express (I); (6) antagonists and agonists of NHP; (7) compounds that modulate the expression or activity NHP which can be used for diagnosis, drug screening, clinical trial monitoring, treatment of diseases and disorders, and cosmetic or nutriceutical applications; (8) identifying compounds that modulate, expression and/or activity of NHP; (9) degenerate nucleic acid variants of (I); (9) vectors that contain (I); (10) nucleotide sequences (e.g. antisense and ribozyme molecules) that inhibit expression of (I); and (11) proteins that are functionally equivalent to NHPs.

BIOTECHNOLOGY - Preferred Protein: NHPs are novel proteins expressed in human cell lines and human testis, small intestine, fetal kidney, adenocarcinoma, embryonic carcinoma cells and osteosarcoma cells.

ACTIVITY - Nootropic; Cytostatic.

MECHANISM OF ACTION - Gene therapy. No suitable data given.

USE - NHP oligonucleotides are useful as hybridization probes for screening libraries and assessing gene expression patterns. NHP sequences are useful to identify mutations associated with a particular disease and also as a diagnostic or prognostic assay, and also in the molecular mutagenesis/evolution of proteins that are at least partially encoded by the NHP sequences. Sequences derived from regions adjacent to the intron/exon boundaries of NHP gene can be used to design primers for use in amplification assays to detect mutations within the exons, splice sites, introns that can be used in diagnostics and pharmacogenomics. NHP sequences are utilized in microarrays or other assay formats, to screen collections of genetic material from patients who have a particular medical condition. NHP nucleotide sequences are useful for drug screening effective in the treatment of symptomatic or phenotypic manifestations of perturbing the normal function of NHP in the body, and nucleotide constructs encoding NHP products are used to genetically engineer host cells to express NHP products in vivo. These genetically engineered cells function as

bioreactors in the body delivering a continuous supply of a NHP , a NHP peptide, or a NHP fusion protein to the body. Nucleotide construct encoding NHP products are also useful in gene therapy for modulating NHP expression and to produce genetically engineered host cells to express NHP products in vivo. NHP nucleotide sequences may also be used as part of ribozyme and/or triple helix sequences that are useful for NHP gene regulation. The encoded NHP polypeptides are useful for generating antibodies, as reagents in diagnostic assays, for identifying other cellular gene products related to NHP and as reagents in assays for screening for compounds that are useful in the treatment of mental, biological or medical disorders and diseases including cancer. (50 pages)

ANSWER 4 OF 11 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN ACCESSION NUMBER: 2003-00776 BIOTECHDS

TITLE:

Novel polynucleotides encoding human proteins that are structurally related to animal kinases, useful for drug screening, diagnosis and in gene therapy of

biological disorders;

vector-mediated recombinant protein gene transfer and expression in host cell for use in

drug screening and nootropic disease and mental disorder

diagnosis and gene therapy

AUTHOR:

TURNER C A; MATHUR B; FRIDDLE C J

PATENT ASSIGNEE: LEXICON GENETICS INC

PATENT INFO:

WO 2002048333 20 Jun 2002 APPLICATION INFO: WO 2001-US49068 12 Dec 2001

PRIORITY INFO:

US 2001-289422 8 May 2001; US 2000-255103 12 Dec 2000

DOCUMENT TYPE:

Patent English

LANGUAGE: OTHER SOURCE:

WPI: 2002-583505 [62]

DERWENT ABSTRACT:

NOVELTY - Isolated nucleic acid molecule (I) comprising a nucleotide sequence encoding a novel human protein (NHP) of 870, 864, 764, 751, 654, 648, 548, 535, 895, 889, 789, 776, 982, 976, 876, 863, 957, 951, 851 or 838 amino acids given in specification, that share structural similarity with animal kinases, including serine-threonine kinases, casein kinases, calcium/calmodulin-dependent protein kinases and mitogen activated kinases, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an isolated nucleic acid molecule comprising a nucleotide sequence that encodes the sequence of 870 amino acids and hybridizes under stringent conditions to the nucleotide sequence of 2613 base pairs given in the specification or its complement.

WIDER DISCLOSURE - Disclosed are: (1) novel human membrane proteins (NHPs) encoded by (I), that share structural similarity with mammalian ion channel proteins and particularly voltage-gated potassium channel proteins; (2) host cell expressing systems comprising (I); (3) antibodies to NHP and anti-idiotypic antibodies; (4) fusion proteins comprising NHP ; (5) genetically engineered animals that either lack or over express (I); (6) antagonists and agonists of NHP; (7) compounds that modulate the expression or activity NHP ; (8) identifying compounds that modulate, expression and/or activity of NHP; (9) degenerate nucleic acid variants of (I); (10) vectors that contain (I); and (11) nucleotide sequences (e.g. antisense and ribozyme molecules) that inhibit expression of (I).

BIOTECHNOLOGY - Preferred Protein: NHPs are novel proteins expressed in human cell lines and human fetal brain, brain, pituitary, cerebellum, and fetal lung, kidney, and embryo cells.

ACTIVITY - Nootropic.

MECHANISM OF ACTION - Gene therapy. No suitable data is given. USE - NHP oligonucleotides are useful as hybridization probes for screening libraries and assessing gene expression patterns. NHP sequences are useful to identify mutations associated with a particular disease and also as a diagnostic or prognostic assay, and also in the molecular mutagenesis/evolution of proteins that are at least partially encoded by the NHP sequences. Sequences derived from regions adjacent to the intron/exon boundaries of NHP gene can be used to design primers for use in amplification assays to detect mutations within the exons, splice sites, introns that can be used in diagnostics and pharmacogenomics. NHP sequences are utilized in microarrays or other assay formats, to screen collections of genetic material from patients who have a particular medical condition. NHP nucleotide sequences are useful for drug screening effective in the treatment of symptomatic or phenotypic manifestations of perturbing the normal function of NHP in the body, and nucleotide constructs encoding NHP products are used to genetically engineer host cells to express NHP products in vivo. These genetically engineered cells function as bioreactors in the body delivering a continuous supply of a NHP , a NHP peptide, or a NHP fusion protein to the body. Nucleotide construct encoding NHP products are also useful in gene therapy for modulating NHP expression and to produce genetically engineered host cells to express NHP products in vivo. NHP nucleotide sequences may also be used as part of ribozyme and/or triple helix sequences that are useful for NHP gene regulation. The encoded NHP polypeptides are useful for generating antibodies, as reagents in diagnostic assays, for identifying other cellular gene products related to NHP and as reagents in assays for screening for compounds that are useful in the treatment of mental, biological or medical disorders and diseases. EXAMPLE - No suitable example given. (93 pages)

L12 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:408781 HCAPLUS

DOCUMENT NUMBER:

137:2411

TITLE:

Protein and cDNA sequences of human

kinase sequence homologs

INVENTOR(S):

Friddle, Carl Johan; Hilbun, Erin; Mathur, Brian;

Turner, C. Alexander, Jr.

PATENT ASSIGNEE(S):

Lexicon Genetics Incorporated, USA

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.				KIND DATE				i	APPL	ICAT:		DATE				
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		-					DK,			-	-			•	-		
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		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	ŪĠ,
		UΖ,	VN,	YU,	ZA,	ZW,	ΑM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM		
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AU 2002028633				A5 2002060		0603	AU 2002-28633						20011119				
US 2002110908					A1		20020	0815	1	JS 20	001-9	99248	81		20	0011	119

US 2003181705 A1 20030925 US 2003-434034 20030508 P 20001120 PRIORITY APPLN. INFO.: US 2000-252011P A1 20011119 US 2001-992481 WO 2001-US43825 W 20011119 AΒ This invention provides protein and cDNA sequences for newly identified human proteins, designated NHPs, which shares substantial sequence homol. with animal kinases, especially NEK family kinases and calcium/calmodulin-dependent protein kinase. NEK family kinase homolog gene, which has been mapped on human chromosome 17, is expressed in, inter alia, human cell lines and pituitary, thymus, spleen , lymph node, bone marrow, trachea, kidney, prostate, testis, thyroid, adrenal gland, pancreas, salivary gland, stomach, small intestine, skeletal muscle, heart, uterus, placenta, adipose, skin, bladder, rectum, pericardium, ovary, fetal kidney, fetal lung, gallbladder, tongue, aorta, 6-, 9-, and 12-wk embryos, adenocarcinoma, osteosarcoma, and embryonic carcinoma cells. Calcium/calmodulin-dependent protein kinase homolog gene, which has been mapped on human chromosome 3, is predominantly expressed in fetal brain, brain, spinal cord, thymus, lymph node, trachea, lung, prostate, testis, thyroid, adrenal gland, stomach, small intestine, skeletal muscle, uterus, placenta, mammary gland, skin, bladder, pericardium, hypothalamus, fetal kidney, fetal lung, tongue, aorta, 6-, 9-, and 12-wk embryos, and embryonic carcinoma cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels.

L12 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN

B2

20030715

ACCESSION NUMBER:

US 6593125

2001:693529 HCAPLUS

DOCUMENT NUMBER:

135:268247

TITLE:

Protein and cDNA sequences of novel human

phospholipases homologs and uses thereof in diagnosis,

therapy and drug screening

INVENTOR(S):

Hu, Yi; Nepomnichy, Boris; Donoho, Gregory; Hilbun, Erin; Turner, C. Alexander, Jr.; Abuin, Alejandro; Friedrich, Glenn; Zambrowicz, Brian; Sands, Arthur T.

PATENT ASSIGNEE(S):

Lexicon Genetics Incorporated, USA

SOURCE:

PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	ATE APPLICATION NO.							
WO 2001068871	A2 20010920	WO 2001-US7994	20010313						
WO 2001068871	A3 20020321								
W: AE, AG, AI	A, AM, AT, AU, AZ,	BA, BB, BG, BR, BY, BZ,	CA, CH, CN,						
CR, CU, CZ	, DE, DK, DM, DZ,	EE, ES, FI, GB, GD, GE,	GH, GM, HR,						
HU, ID, II	, IN, IS, JP, KE,	KG, KP, KR, KZ, LC, LK,	LR, LS, LT,						
LU, LV, MA	, MD, MG, MK, MN,	MW, MX, MZ, NO, NZ, PL,	PT, RO, RU,						
SD, SE, SG	, SI, SK, SL, TJ,	TM, TR, TT, TZ, UA, UG,	UZ, VN, YU,						
ZA, ZW, AM	I, AZ, BY, KG, KZ,	MD, RU, TJ, TM							
RW: GH, GM, KE	LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZW, AT,	BE, CH, CY,						
DE, DK, ES	, FI, FR, GB, GR,	IE, IT, LU, MC, NL, PT,	SE, TR, BF,						
BJ, CF, CG	, CI, CM, GA, GN,	GW, ML, MR, NE, SN, TD,	TG						
US 2002081595	A1 20020627	US 2001-804969	20010313						
EP 1317551	A2 20030611	EP 2001-920329	20010313						
R: AT, BE, CH	, DE, DK, ES, FR,	GB, GR, IT, LI, LU, NL,	SE, MC, PT,						

JP 2004500107 T2 20040108 JP 2001-567355 20010313 US 2000-188885P PRIORITY APPLN. INFO.: P 20000313 US 2000-189693P P 20000315 WO 2001-US7994 W 20010313 This invention provides protein and cDNA sequences for newly identified AB human proteins, designated NHPs, which shares structural similarity with animal phospholipases, including phospholipases C δ -4. The **NHPs** are novel proteins that are expressed in, inter alia, human cell lines and human fetal and adult brain, cerebellum, spinal cord, thymus, spleen, testis, thyroid, adrenal gland, small intestine, colon, adipose, rectum, and placenta cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels. L12 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN 2001:693527 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 135:252804 TITLE: Protein and cDNA sequences of novel human G protein-coupled receptor kinase homologs and uses thereof in diagnosis, therapy and drug screening Walke, D. Wade; Wilganowski, Nathaniel L.; Turner, C. INVENTOR(S): Alexander, Jr. PATENT ASSIGNEE(S): Lexicon Genetics Incorporated, USA PCT Int. Appl., 34 pp. SOURCE: CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: KIND DATE PATENT NO. APPLICATION NO. DATE -------------------WO 2001068869 A2 20010920 WO 2001-US7500 20010308 **A3** WO 2001068869 20020124 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG 20020411 US 2002042503 US 2001-802117 A1 20010308 US 6444456 20020903 B2 EP 1263967 20021211 A2 EP 2001-916502 20010308 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR JP 2004500106 T2 20040108 JP 2001-567353 20010308 US 2003004328 A1 20030102 US 2002-217745 20020812 PRIORITY APPLN. INFO.: US 2000-188449P P 20000310

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

AB This invention provides protein and cDNA sequences for newly identified human proteins, designated NHPs, which shares structural similarity with animal kinase, including G protein-coupled receptor kinases. The NHPs are novel proteins that are expressed in, inter alia, human cell lines and human fetal and adult brain, pituitary, cerebellum, spinal cord,

US 2001-802117 WO 2001-US7500 A1 20010308

W 20010308

thymus, kidney, fetal liver, prostate, testis, adrenal gland, small intestine, pericardium, mammary gland, placenta, uterus, and skeletal muscle cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels.

L12 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:676960 HCAPLUS

DOCUMENT NUMBER:

135:237660

TITLE:

Protein and cDNA sequences of novel human kinase interacting protein homologs and uses thereof in diagnosis, therapy and drug screening Mathur, Brian; Turner, C. Alexander, Jr.

INVENTOR(S):

Lexicon Genetics Incorporated, USA

PATENT ASSIGNEE(S):

PCT Int. Appl., 32 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA	TENT :	NO.			KIND DATE		APPLICATION NO.							DATE			
	WO	2001	0667	60		A2	_	2001	0913							2	0010	308
	WO	2001	0667	60		A3		2002	0530									
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
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			HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,
			LU,	LV,	ΜA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	ΝZ,	PL,	PT,	RO,	RU,
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		RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	ΒE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
			ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG		
	US	2002	0824	06		A1		2002	0627	1	US 2	001-	8021	16		2	0010	308
	EΡ	1343	901			A2		2003	0917]	EP 2	001-	9184	67		-2	0010	308
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	FI,	CY,	TR												
	JΡ	2004	5192	03		Т2		2004	0702		JP 2	001-	5659	14		2	0010	308
PRIC	RIT	Y APP	LN.	INFO	.:					1	US 2	000-	1877	19P		P 2	0000	308
										1	WO 2	001-1	US74	99	ı	W 2	0010	308
AB	Th	is in	vent	ion	prov	ides	pro	tein	and	CDN	A se	quen	ces	for	newl	y id	enti:	fied

d human proteins, designated NHPs, which shares structural similarity with mammalian sugar and sodium-dependent inorg. phosphate kinase interacting proteins, and NBMPR-sensitive nucleoside kinase interacting proteins. The NHPs are novel proteins that are expressed in, inter alia, human cell lines and human fetal and adult brain, pituitary, cerebellum, spinal cord, thymus, spleen, lymph node, bone marrow, trachea, fetal and adult kidney, liver, prostate, testis, thyroid, adrenal gland, salivary gland, stomach, small intestine, colon, adipose, rectum, pericardium, hypothalamus, cervix, bladder, esophagus, skin, mammary gland, placenta, uterus, skeletal muscle, pancreas, fetal lung, and ovary cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels.

L12 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2001:618177 HCAPLUS

DOCUMENT NUMBER: 135:191337

Protein and cDNA sequences of novel human TITLE:

kinase homologs and uses thereof in diagnosis,

therapy and drug screening

Walke, D. Wade; Hu, Yi; Nepomnichy, Boris; Turner, C. INVENTOR(S):

Alexander, Jr.; Zambrowicz, Brian Lexicon Genetics Incorporated, USA

PATENT ASSIGNEE(S): PCT Int. Appl., 70 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.						KIND DATE			APPL	ICAT:		DATE				
WO	2001	0610							1	WO 2	001-1	JS53!	56		2	0010	215
WO	2001	0610	16		A3		2002	0207									
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							JP,										
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,
							SL,										
		ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM					
	RW:						MZ,						ZW,	AT,	BE,	CH,	CY,
		DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
							GA,										
US	2002	0380	11		A1		2002	0328	1	US 2	001-	7833	20		2	0010	215
EP	1257	652			A2		2002	1120]	EP 2	001-	9128	39		2	0010	215
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR						
JP	2003	5315	77		Т2		2003	1028		JP 2	001-	5598	53		2	0010	215
PRIORIT	RIORITY APPLN. INFO.:								1	US 2	000-	1835	82P		P 2	0000	218
									1	US 2	000-	1840	14P		P 2	0000	222
									1	WO 2	001-	US53.	56		W 2	0010	215

This invention provides protein and cDNA sequences for newly identified AΒ human proteins, designated NHPs, which shares structural similarity with animal kinases, including cell division control protein kinases, serine/threonine protein kinases and membrane-associated guanylate kinases (MAGUKs). The NHPs are novel proteins that are expressed in, inter alia, human cell lines and human fetal and adult brain, pituitary, cerebellum, thymus, spleen, lymph node, bone marrow, trachea, fetal and adult liver, prostate, testis, thyroid, adrenal gland, pancreas, salivary gland, stomach, small intestine, colon, uterus, placenta, mammary gland, adipose, esophagus, bladder, cervix, rectum, pericardium, hypothalamus, ovary, fetal and adult kidney, and fetal lung cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels.

L12 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN

2001:435241 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 135:41828

Protein and cDNA sequences of a novel human TITLE:

protein kinase homolog and uses thereof in

diagnosis, therapy and drug screening

Donoho, Gregory; Scoville, John; Turner, C. Alexander, INVENTOR(S):

Jr.; Friedrich, Glenn; Zambrowicz, Brian; Abuin,

Alejandro; Sands, Arthur T.

Lexicon Genetics Incorporated, USA PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	rent (NO.			KIND DATE		APPLICATION NO.						DATE				
								1	WO 2	000-1	US33:	240		2	0001	207	
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
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		ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM					
	RW:			•	•	•	•	•	•	•						•	•
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EP	1240	187			A2					EP 2	000-	9892	31		2	0001	207
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑL,	TR					•	
US	2003	0644	95		A1		2003	0403	1	US 2	000-	7333	88		2	0001	207
							2003	0805									
JP	2004	5040	05		T 2		2004	0212	1	JP 2	001-	5443	12		2	0001	207
US	2004	0141	12		A1		2004	0122	•	US 2	003-	4461	75		2	0030	527
RIT	Y APP	LN.	INFO	.:						US 1	999-	1694:	28P		P 1	9991	207
								_									
	EP US US JP US RIT	WO 2001 WO 2001 W: RW: EP 1240 R: US 2003 US 6602 JP 2004 US 2004 ORITY APP	WO 20010424 W: AE, CR, HU, LU, SD, ZA, RW: GH, DE, BJ, EP 1240187 R: AT, IE, US 20030644 US 6602698 JP 20045040 US 20040141 PRITY APPLN.	WO 2001042435 WO 2001042435 W: AE, AG, CR, CU, HU, ID, LU, LV, SD, SE, ZA, ZW, RW: GH, GM, DE, DK, BJ, CF, EP 1240187 R: AT, BE, IE, SI, US 2003064495 US 6602698 JP 2004504005 US 2004014112 ORITY APPLN. INFO	WO 2001042435 WO 2001042435 W: AE, AG, AL, CR, CU, CZ, HU, ID, IL, LU, LV, MA, SD, SE, SG, ZA, ZW, AM, RW: GH, GM, KE, DE, DK, ES, BJ, CF, CG, EP 1240187 R: AT, BE, CH, IE, SI, LT, US 2003064495 US 2004014112 ORITY APPLN. INFO.:	WO 2001042435 A2 WO 2001042435 A3 W: AE, AG, AL, AM,	WO 2001042435 A2 WO 2001042435 A3 W: AE, AG, AL, AM, AT, CR, CU, CZ, DE, DK, HU, ID, IL, IN, IS, LU, LV, MA, MD, MG, SD, SE, SG, SI, SK, ZA, ZW, AM, AZ, BY, RW: GH, GM, KE, LS, MW, DE, DK, ES, FI, FR, BJ, CF, CG, CI, CM, EP 1240187 A2 R: AT, BE, CH, DE, DK, IE, SI, LT, LV, FI, US 2003064495 A1 US 6602698 B2 JP 2004504005 T2 US 2004014112 A1 PRITY APPLN. INFO.:	WO 2001042435 A2 2001 WO 2001042435 A3 2001 W: AE, AG, AL, AM, AT, AU, CR, CU, CZ, DE, DK, DM, HU, ID, IL, IN, IS, JP, LU, LV, MA, MD, MG, MK, SD, SE, SG, SI, SK, SL, ZA, ZW, AM, AZ, BY, KG, RW: GH, GM, KE, LS, MW, MZ, DE, DK, ES, FI, FR, GB, BJ, CF, CG, CI, CM, GA, EP 1240187 A2 2002 R: AT, BE, CH, DE, DK, ES, IE, SI, LT, LV, FI, RO, US 2003064495 A1 2003 US 6602698 B2 2003 JP 2004504005 T2 2004 US 2004014112 A1 2004 ORITY APPLN. INFO.:	WO 2001042435 A2 20010614 WO 2001042435 A3 20011108 W: AE, AG, AL, AM, AT, AU, AZ, CR, CU, CZ, DE, DK, DM, DZ, HU, ID, IL, IN, IS, JP, KE, LU, LV, MA, MD, MG, MK, MN, SD, SE, SG, SI, SK, SL, TJ, ZA, ZW, AM, AZ, BY, KG, KZ, RW: GH, GM, KE, LS, MW, MZ, SD, DE, DK, ES, FI, FR, GB, GR, BJ, CF, CG, CI, CM, GA, GN, EP 1240187 A2 20020918 R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK, US 2003064495 A1 20030403 US 6602698 B2 20030805 JP 2004504005 T2 20040212 US 2004014112 A1 20040122 ORITY APPLN. INFO.:	WO 2001042435 WO 2001042435 W: AE, AG, AL, AM, AT, AU, AZ, BA, CR, CU, CZ, DE, DK, DM, DZ, EE, HU, ID, IL, IN, IS, JP, KE, KG, LU, LV, MA, MD, MG, MK, MN, MW, SD, SE, SG, SI, SK, SL, TJ, TM, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RW: GH, GM, KE, LS, MW, MZ, SD, SL, DE, DK, ES, FI, FR, GB, GR, IE, BJ, CF, CG, CI, CM, GA, GN, GW, EP 1240187 R: AT, BE, CH, DE, DK, ES, FR, GB, IE, SI, LT, LV, FI, RO, MK, CY, US 2003064495 US 2004014112 APPLN. INFO.:	WO 2001042435 A2 20010614 WO 2 WO 2001042435 A3 20011108 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, HU, ID, IL, IN, IS, JP, KE, KG, KP, LU, LV, MA, MD, MG, MK, MN, MW, MX, SD, SE, SG, SI, SK, SL, TJ, TM, TR, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, DE, DK, ES, FI, FR, GB, GR, IE, IT, BJ, CF, CG, CI, CM, GA, GN, GW, ML, EP 1240187 A2 20020918 EP 2 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, SI, LT, LV, FI, RO, MK, CY, AL, US 2003064495 A1 20030403 US 2 US 6602698 B2 20030805 JP 2004504005 T2 20040122 JP 2 US 2004014112 A1 20040122 US 2 US 20RITY APPLN. 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INFO:: US 1999-169428P P 19991

AB This invention provides protein and cDNA sequences for newly identified human proteins, designated NHPs, which shares structural similarity with animal kinases, and particularly calcium/calmodulin-dependant protein kinases and serin/threonine protein kinases. The NHP is a novel protein that is expressed in, inter alia, human cell lines, testis, pituitary, fetal brain, thymus, spleen, cerebellum, trachea, thyroid, adrenal gland, fetal kidney, colon, uterus, pancreas and lung cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels.

L12 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:247510 HCAPLUS

DOCUMENT NUMBER:

134:261891

TITLE:

Protein and cDNA sequences of ${\bf human}$

serine/threonine protein kinase and uses

thereof in diagnosis, therapy and drug screening Donoho, Gregory; Turner, C. Alexander, Jr.; Nehls,

Michael; Friedrich, Glenn; Zambrowicz, Brian; Sands,

Arthur T.

PATENT ASSIGNEE(S):

Lexicon Genetics Incorporated, USA

PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

INVENTOR(S):

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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PRIORITY APPLN. INFO.:
                                              US 1999-156511P
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                                                                      19990928
                                              WO 2000-US26621
                                                                  W 20000927
     This invention provides protein and cDNA sequences for newly identified
AB
     human proteins, designated NHPs, which shares
     substantial sequence homol. with animal kinases, and more
     particular serine/threonine protein kinases. While NHP
     shares sequence homol. with other serine/threonine protein kinases
     , its primary sequence is unique. Its expression is detected in
     various human tissues including brain, pituitary, spinal cord,
     spleen, trachea, kidney, prostate, testis, adrenal gland
     cells, and gene trapped human cells. In one embodiment, the
     invention relates to diagnostic assays for detecting diseases associated with
     inappropriate NHP activity or levels. Also disclosed are
     methods for utilizing NHP in drug screening assays and in
     therapy directed against diseases associated with inappropriate NHP
     activity or levels.
REFERENCE COUNT:
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WO 2001023579

WO 2000-US26621

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L6
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L7
           6015 S L4 AND L5
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             24 S E3
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=> s 19 and 117

L18 6 L9 AND L17

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PROCESSING COMPLETED FOR L18

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L19 ANSWER 1 OF 6 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2002-12398 BIOTECHDS

TITLE: Novel polynucleotide encoding novel human protein

sharing structural similarity with animal kinases

e.g. serine-threonine, calcium/calmodulin-dependent, and

myosin light chain kinases, useful as probes and

primers;

vector-mediated gene transfer, **expression** in host cell, antibody, antisense oligonucleotide and

ribozyme for recombinant protein production,

drug screening and gene therapy

AUTHOR: FRIDDLE C J; HILBUN E; NEPOMNICHY B; HU Y

PATENT ASSIGNEE: LEXICON GENETICS INC

PATENT INFO: WO 2002018555 7 Mar 2002

APPLICATION INFO: WO 2000-US26776 31 Aug 2000

PRIORITY INFO: US 2000-229280 31 Aug 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-292200 [33]

AB DERWENT ABSTRACT:

NOVELTY - An isolated novel **human** protein (NHP) encoding nucleic acid, where the NHP shares structural similarity with animal **kinases** e.g. serine-threonine, calcium/calmodulin-dependent, and myosin light chain **kinases**, is new.

DETAILED DESCRIPTION - An isolated novel human protein (NHP) encoding nucleic acid, where the NHP shares structural similarity with animal kinases e.g. serine-threonine, calcium/calmodulin-dependent, and myosin light chain kinases, is new. The NHP nucleic acid comprises a nucleotide sequence encoding a fully defined sequence of 683 (S2), 654 (S4), 388 (S7) and 398 (S9) amino acids as given in the specification, and which hybridizes under stringent conditions to a fully defined sequence of 2052 (S1) or 1167 (S6) nucleotides as given in specification, or its complement. An INDEPENDENT CLAIM is also included for an isolated nucleic acid molecule that comprises at least 24 contiguous bases of (S6).

WIDER DISCLOSURE - The following are disclosed: (1) novel human proteins (NHP) having a fully defined sequence of (S2), (S4), (S7) or (S9) encoded by NHP polynucleotides where the proteins are useful for generating antibodies, reagents in diagnostic assays, identification of other cellular gene products related to NHP, as reagents in assays for screening compounds that can be used as pharmaceutical reagents for treating mental, biological or medical disorders and diseases; (2) a nucleic acid selected from: (a) a sequence that encode mammalian homologs of NHP including the specifically described NHPs and the NHP gene products (b) a sequence that encode one or more portions of the NHPs that correspond to functional domains, and the polypeptide products specified by such nucleotide sequences (c) a

sequence that encode mutant versions, engineered or naturally occurring, of the described NHPs in which all or part of at least one domain is deleted or altered, and the polypeptide products specified by such nucleotide sequences (d) a sequence that encode fusion proteins containing a coding region from an NHP or one of its domains (e.g. receptor or ligand binding domain) fused to another peptide or polypeptide, or (e) therapeutic or diagnostic derivatives of the polynucleotides; (3) agonist and antagonist of NHPs; (4) compounds that modulate the expression or activity of NHPs and nucleotide sequences (nucleotide constructs) that can be used to inhibit the expression of NHP (e.g., antisense, ribozyme molecules, etc.,) or to promote the expression of NHP; (5) transgenic animals that express NHP transgene or knock-outs that do not express a functional NHP; (6) processes of identifying compounds that modulate i.e., act as agonist or antagonist of NHP expression and/or NHP activity; (7) antibodies against NHP and idiotypic antibodies against anti-NHP antibodies; (8) fusion proteins comprising NHP protein; (9) degenerate nucleic acid variants of the NHP polynucleotide sequences; (10) DNA vectors that contain any of the NHP coding sequences and/or their complements; (11) genetically engineered host cells expressing NHP coding sequences operatively associated with a regulatory element; (12) analogues, derivatives and NHP homologues from other species; (13) proteins that are functionally equivalent to NHP encoded by the above described nucleotide sequences; and (14) pharmaceutical formulations comprising the NHP polynucleotide sequences.

BIOTECHNOLOGY - Isolation: The NHP polynucleotides were complied from sequences available in GENBANK, and cDNAs generated from kidney, testis, trachea, esophagus, pituitary, human gene trapped products ((S2) and (S4)) or bone marrow and skeletal muscle mRNAs.

ACTIVITY - None given. No biological data is given. MECHANISM OF ACTION - Gene therapy. No biological data is given. USE - The NHP polynucleotide sequences that encode NHP's sharing structural similarity with animal kinases including NIMA (never in mitosis A) related kinases, serine-threonine kinases calcium/calmodulin-dependent kinases, and myosin light chain kinases, when knocked out provide a method for identifying phenotypic expression of the particular gene as well as a method of assigning function to previously unknown genes, for identifying coding sequence and mapping a unique gene to a particular chromosome and in the identification of biologically relevant splice junctions. Complementary sequences of (I) that hybridize to (I) can be used in conjunction with PCR to screen libraries, isolate clones and prepare cloning and sequencing templates. Such oligonucleotides can also be used as hybridization probes for screening libraries, for assessing gene expression patterns. The probes are useful for identification, selection and validation of novel molecular targets for drug discovery. Labeled NHP nucleotide probes can be used to screen a human genomic library which is helpful for identifying polymorphisms, determining the genomic structure of a given locus/allele and designing diagnostic tests. The probe sequences also have use in defining and monitoring both drug action and toxicity. Oligonucleotides complementary to NHPs may encode or act as NHP antisense molecules, or may be used as part of ribozyme and/or triple helix sequences. Addressable arrays comprising the NHP polynucleotides can be used to identify and characterize the temporal and tissue expression of a gene. The use of addressable arrays comprising the NHP polynucleotide sequence provide detailed information about transcriptional changes involved in specific pathway, potentially leading to the identification of novel components or gene functions that manifest themselves as novel phenotypes. Microarray formats comprising NHP polynucleotide sequences can be used to screen collections of genetic material from patients who have a particular medical condition. The sequences are also useful for identifying mutations associated with a particular disease and also as a

prognostic or diagnostic assay. (I) is also useful in the molecular mutagenesis/evolution of proteins that are at least partially encoded by the described novel sequences.

EXAMPLE - None given. (46 pages)

L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:693529 HCAPLUS

DOCUMENT NUMBER:

135:268247

TITLE:

Protein and cDNA sequences of novel human phospholipases homologs and uses thereof in diagnosis,

therapy and drug screening

INVENTOR(S):

Hu, Yi; Nepomnichy, Boris; Donoho, Gregory; Hilbun, Erin; Turner, C. Alexander, Jr.; Abuin,

Alejandro; Friedrich, Glenn; Zambrowicz, Brian; Sands,

Arthur T.

PATENT ASSIGNEE(S):

Lexicon Genetics Incorporated, USA

SOURCE:

PCT Int. Appl., 45 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.					KIND DATE			i	ICAT:	ION 1	. O <i>l</i>	DATE					
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AB This invention provides protein and cDNA sequences for newly identified human proteins, designated NHPs, which shares structural similarity with animal phospholipases, including phospholipases C &-4. The NHPs are novel proteins that are expressed in, inter alia, human cell lines and human fetal and adult brain, cerebellum, spinal cord, thymus, spleen, testis, thyroid, adrenal gland, small intestine, colon, adipose, rectum, and placenta cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels.

L19 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:693527 HCAPLUS

DOCUMENT NUMBER:

135:252804

TITLE:

Protein and cDNA sequences of novel human G protein-coupled receptor kinase homologs and

uses thereof in diagnosis, therapy and drug screening

INVENTOR(S):

Walke, D. Wade; Wilganowski, Nathaniel L.;

Turner, C. Alexander, Jr.

PATENT ASSIGNEE(S): Lexicon Genetics Incorporated, USA

SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT						KIND DATE			APPLICATION NO.						DATE			
			69		A2 20010920 A3 20020124				WO 2	2001-1	JS75	00		2	0010	308		
	W:	CR, HU, LU, SD,	CU, ID, LV, SE,	CZ, IL, MA, SG,	DE, IN, MD, SI,	DK, IS, MG, SK,	DM, JP, MK, SL,	DZ, KE, MN, TJ,	EE, KG, MW, TM,	ES, KP, MX, TR,	BG, FI, KR, MZ, TT,	GB, KZ, NO, TZ,	GD, LC, NZ,	GE, LK, PL,	GH, LR, PT,	GM, LS, RO,	HR, LT, RU,	
110		GH, DE, BJ,	GM, DK, CF,	KE, ES, CG,	LS, FI, CI,	MW, FR, CM,	MZ, GB, GA,	SD, GR, GN,	SL, IE, GW,	SZ, IT, ML,	TJ, TZ, LU, MR,	UG, MC, NE,	NL, SN,	PT, TD,	SE, TG	TR,	BF,	
	2002 6444				B2		2002) 2002)		i	US Z	2001-8	3021	17		21	0010	308	
	1263				A2				:	EP 2	2001-9	9165	02		2	0010	308	
	R:			•			ES, RO,				IT,	LI,	LU,	NL,	SE,	MC,	PT,	
	2004										2001-					0010		
	2003				A1		2003	0102								0020		
PRIORITY	. АРР.	LN.	LNFO.						. 1	US 2	2000 - 1 2001 - 1 2001 - 1	8021	17	i	A1 2	0000: 0010: 0010:	308	

AB This invention provides protein and cDNA sequences for newly identified human proteins, designated NHPs, which shares structural similarity with animal kinase, including G protein-coupled receptor kinases. The NHPs are novel proteins that are expressed in, inter alia, human cell lines and human fetal and adult brain, pituitary, cerebellum, spinal cord, thymus, kidney, fetal liver, prostate, testis, adrenal gland, small intestine, pericardium, mammary gland, placenta, uterus, and skeletal muscle cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels.

L19 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:618177 HCAPLUS

DOCUMENT NUMBER:

135:191337

TITLE:

Protein and cDNA sequences of novel human

kinase homologs and uses thereof in diagnosis,

therapy and drug screening

INVENTOR(S):

Walke, D. Wade; Hu, Yi; Nepomnichy, Boris; Turner, C. Alexander, Jr.; Zambrowicz, Brian

PATENT ASSIGNEE(S):

Lexicon Genetics Incorporated, USA

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

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WO 2001061016
                                A2
                                        20010823
                                                       WO 2001-US5356
                                                                                    20010215
      WO 2001061016
                                Α3
                                        20020207
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                               A1 20020328 US 2001-783320
A2 20021120 EP 2001-912839
      US 2002038011
      EP 1257652
                                                                                    20010215
               AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
           R:
      JP 2003531577
                              T2
                                        20031028
                                                       JP 2001-559853
                                                                                    20010215
PRIORITY APPLN. INFO.:
                                                       US 2000-183582P
                                                                                P 20000218
                                                       US 2000-184014P
                                                                                Ρ
                                                                                    20000222
                                                       WO 2001-US5356
                                                                                W 20010215
      This invention provides protein and cDNA sequences for newly identified
AΒ
      human proteins, designated NHPs, which shares structural
      similarity with animal kinases, including cell division control
      protein kinases, serine/threonine protein kinases and
      membrane-associated guanylate kinases (MAGUKs). The NHPs are novel
      proteins that are expressed in, inter alia, human cell
      lines and human fetal and adult brain, pituitary, cerebellum,
      thymus, spleen, lymph node, bone
      marrow, trachea, fetal and adult liver, prostate, testis
      , thyroid, adrenal gland, pancreas, salivary gland, stomach,
      small intestine, colon, uterus, placenta, mammary gland, adipose,
      esophagus, bladder, cervix, rectum, pericardium, hypothalamus, ovary,
      fetal and adult kidney, and fetal lung cells. In one embodiment, the
      invention relates to diagnostic assays for detecting diseases associated with
      inappropriate NHP activity or levels. Also disclosed are methods for
      utilizing NHP in drug screening assays and in therapy directed against
      diseases associated with inappropriate NHP activity or levels.
L19 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                               2001:435241 HCAPLUS
DOCUMENT NUMBER:
                               135:41828
TITLE:
                               Protein and cDNA sequences of a novel human
                               protein kinase homolog and uses thereof in
                               diagnosis, therapy and drug screening
INVENTOR (S):
                               Donoho, Gregory; Scoville, John; Turner, C.
                               Alexander, Jr.; Friedrich, Glenn; Zambrowicz, Brian;
                               Abuin, Alejandro; Sands, Arthur T.
PATENT ASSIGNEE(S):
                               Lexicon Genetics Incorporated, USA
SOURCE:
                               PCT Int. Appl., 31 pp.
                               CODEN: PIXXD2
DOCUMENT TYPE:
                               Patent
LANGUAGE:
                               English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
      PATENT NO.
                              KIND
                                       DATE
                                                     APPLICATION NO.
                                                                                    DATE
      _____
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                                                      -----
     WO 2001042435
                              A2 20010614
                                                      WO 2000-US33240
                                                                                    20001207
      WO 2001042435
                              A3 20011108
           W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
               HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
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ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 1240187
                                 20020918
                                           EP 2000-989231
                           A2
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     US 2003064495
                           Α1
                                  20030403
                                              US 2000-733388
                                                                       20001207
     US 6602698
                           B2
                                  20030805
     JP 2004504005
                           T2
                                  20040212
                                              JP 2001-544312
                                                                       20001207
     US 2004014112
                           Α1
                                  20040122
                                              US 2003-446175
                                                                       20030527
PRIORITY APPLN. INFO.:
                                              US 1999-169428P
                                                                    Ρ
                                                                       19991207
                                              US 2000-733388
                                                                   A1 20001207
                                              WO 2000-US33240
                                                                   W 20001207
     This invention provides protein and cDNA sequences for newly identified
AB
     human proteins, designated NHPs, which shares structural
     similarity with animal kinases, and particularly
     calcium/calmodulin-dependant protein kinases and serin/threonine
     protein kinases. The NHP is a novel protein that is
     expressed in, inter alia, human cell lines,
     testis, pituitary, fetal brain, thymus
       spleen, cerebellum, trachea, thyroid, adrenal gland, fetal
     kidney, colon, uterus, pancreas and lung cells. In one
     embodiment, the invention relates to diagnostic assays for detecting
     diseases associated with inappropriate NHP activity or levels. Also
     disclosed are methods for utilizing NHP in drug screening assays and in
     therapy directed against diseases associated with inappropriate NHP activity
     or levels.
L19 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                          2001:247510 HCAPLUS
DOCUMENT NUMBER:
                          134:261891
TITLE:
                          Protein and cDNA sequences of human
                          serine/threonine protein kinase and uses
                          thereof in diagnosis, therapy and drug screening
                          Donoho, Gregory; Turner, C. Alexander, Jr.;
INVENTOR(S):
                          Nehls, Michael; Friedrich, Glenn; Zambrowicz, Brian;
                          Sands, Arthur T.
PATENT ASSIGNEE(S):
                          Lexicon Genetics Incorporated, USA
                          PCT Int. Appl., 38 pp.
SOURCE:
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                          KIND
                                 DATE
                                              APPLICATION NO.
                                                                      DATE
                                              -----
                                              WO 2000-US26621
     WO 2001023579
                          A1
                                 20010405
                                                                       20000927
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
             ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 1220927
                           A1
                                 20020710 EP 2000-966996
                                                                       20000927
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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IE, SI, LT, LV, FI, RO, MK, CY, AL

20030318

20040406

JP 2001-526961

US 2000-671050

US 1999-156511P

WO 2000-US26621

20000927

20000927

P 19990928

W 20000927

T2

В1

JP 2003510082

PRIORITY APPLN. INFO.:

US 6716616

AB This invention provides protein and cDNA sequences for newly identified human proteins, designated NHPs, which shares substantial sequence homol. with animal kinases, and more particular serine/threonine protein kinases. While NHP shares sequence homol. with other serine/threonine protein kinases, its primary sequence is unique. Its expression is detected in various human tissues including brain, pituitary, spinal cord, spleen, trachea, kidney, prostate, testis, adrenal gland cells, and gene trapped human cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels. REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS 3 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT => d his (FILE 'HOME' ENTERED AT 10:04:50 ON 28 SEP 2004) FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 10:05:11 ON 28 SEP 2004 L11239787 S KINASE?

L2 455391 S HUMAN AND L1 6718512 S CLON? OR EXPRESS? OR RECOMBINANT L3 L4224730 S L2 AND L3 L5 606832 S "FETAL BRAIN" OR CEREBELUM OR "BONE MARROW" L6 1358853 S THYMUS OR PANCREAS OR SPLEEN OR TESTIS L7 6015 S L4 AND L5 L88577 S L4 AND L6 L9 13888 S L7 OR L8 L10 3209 S "NHP" L11 13 S L9 AND L10 L12 11 DUP REM L11 (2 DUPLICATES REMOVED) E WALKE D W/AU L13 115 S E3-E6 E HILBUN E/AU T.14 24 S E3 E DONOHO G/AU L15 149 S E3-E9 E TURNER A/AU L16 1250 S E3 L17 1508 S L13 OR L14 OR L15 OR L16 L18 6 S L9 AND L17 L19 6 DUP REM L18 (0 DUPLICATES REMOVED) => s 19 and 14 L2013888 L9 AND L4 => s 112 and 110 L21 11 L12 AND L10 => s 117 and 14 L2234 L17 AND L4 => dup rem 122 PROCESSING COMPLETED FOR L22 L23 20 DUP REM L22 (14 DUPLICATES REMOVED) => d 1-20 ibib ab

L23 ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2004 ACS on STN

2004:739850 HCAPLUS

ACCESSION NUMBER:

TITLE. Protein and cDNA sequences of a novel human

protein kinase

Walke, D. Wade; Scoville, John; Friddle, INVENTOR(S):

Carl Johan

PATENT ASSIGNEE(S):

U.S. Pat. Appl. Publ., 17 pp., Division of U.S. Ser. SOURCE:

No. 196,927.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
US 2004175749	A 1	20040909	US 2004-803278	20040318		
PRIORITY APPLN. INFO.:			US 2001-293248P P	20010524		
			US 2002-196927 A3	20020520		

Novel human polynucleotide and polypeptide sequences are disclosed that can be used in therapeutic, diagnostic, and pharmacogenomic applications.

ANSWER 2 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2004-04631 BIOTECHDS

TITLE:

AUTHOR:

New human kinase nucleic acid molecules,

useful for diagnosis, drug screening, clinical trial

monitoring and treating diseases or disorders associated with

biological disorders or imbalances;

involving vector-mediated gene transfer and expression in host cell for use in gene therapy HU Y; NEPOMNICHY B; GERHARDT B; WALKE D W; FRIDDLE

СJ

HU Y; NEPOMNICHY B; GERHARDT B; WALKE D W; FRIDDLE C J PATENT ASSIGNEE:

PATENT INFO: US 2003175949 18 Sep 2003

APPLICATION INFO: US 2003-430797 6 May 2003

US 2003-430797 6 May 2003; US 2000-243893 27 Oct 2000 PRIORITY INFO:

DOCUMENT TYPE: Patent LANGUAGE: English

WPI: 2003-898545 [82] OTHER SOURCE:

DERWENT ABSTRACT:

NOVELTY - An isolated nucleic acid molecule comprising a sequence of 2829

(S1) or 927 (S2) bp, fully defined in the specification, is new. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for an

isolated nucleic acid expression vector comprising a promoter element operatively positioned to express a transcript encoding a sequence of 942 or 308 amino acids, fully defined in the specification.

BIOTECHNOLOGY - Preferred Molecule: The nucleic acid molecule encodes a sequence of 942 or 308 amino acids, fully defined in the specification. It hybridizes under stringent conditions to S1 or its complement.

ACTIVITY - None given.

MECHANISM OF ACTION - Gene therapy.

USE - The nucleic acid molecules are useful for diagnosis, drug screening, clinical trial monitoring and treating diseases or disorders associated with biological disorders or imbalances. (17 pages)

ANSWER 3 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN ACCESSION NUMBER: 2003-23467 BIOTECHDS

TITLE:

New nucleic acid molecules encoding novel human

proteins (NHPs), e.g. sharing sequence similarity with animal

kinases or receptor tyrosine kinases,

useful for diagnosis, drug screening, and treatment of

diseases and disorders;

virus vector-mediated gene transfer and expression

in bacterium, yeast, fungus, insect, mammal cell for
recombinant protein-tyrosine-kinase

receptor

AUTHOR: HU Y; NEPOMNICHY B; GERHARDT B; WALKE D W; FRIDDLE

J

PATENT ASSIGNEE: LEXICON GENETICS INC
PATENT INFO: US 6586230 1 Jul 2003
APPLICATION INFO: US 2001-4542 23 Oct 2001

PRIORITY INFO: US 2001-4542 23 Oct 2001; US 2000-243893 27 Oct 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2003-634547 [60]

AB DERWENT ABSTRACT:

NOVELTY - An isolated **human** nucleic acid molecule, comprising a sequence of 2829 or 927 base pairs (bp), or encodes a sequence of 942 amino acids, fully defined in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following: (1) an isolated nucleic acid **expression** vector comprising the nucleic acid molecule; and (2) a host cell comprising the **expression** vector.

WIDER DISCLOSURE - Also disclosed as new are: (1) encoded proteins, fusion proteins, polypeptides and peptides; (2) antibodies to the encoded proteins; (3) genetically engineered animals that either lack or over express the disclosed genes; (4) antagonist or agonist of proteins, including small molecules, large molecules; (5) mutant NHPs and other compounds that modulate the expression or activity of the proteins; and (6) transgenic animals that express a NHP sequence or knock-outs that do not express a functional NHP.

BIOTECHNOLOGY - Preparation: NHP gene homologs can be isolated from nucleic acid from an organism of interest by performing polymerase chain reaction (PCR) using two degenerate or wobble oligonucleotide primer pools designed on the basis of amino acid sequences. The PCR product can be subcloned and sequenced to ensure that the amplified sequences represent the sequence of the desired NHP gene. The PCR fragment can then be used to isolate a full length cDNA clone by a variety of methods. For example, the amplified fragment can be labeled and used to screen a cDNA library, such as a bacteriophage cDNA library. A cDNA encoding a mutant NHP sequence can be isolated, for example, by using PCR. In this case, the first cDNA strand may be synthesized by hybridizing an oligo-dT oligonucleotide to mRNA isolated from tissue known or suspected to be expressed in an individual putatively carrying a mutant NHP allele, and by extending the new strand with reverse transcriptase. Preferred Host: Escherichia coli, bacillus subtilis, Saccharomyces, Pichia, insect cell, Chinese hamster ovary, baby hamster kidney, 293 cell, 3T3 cell. Preferred Vector: Baculo virus, cauliflower mosaic virus, tobacco mosaic virus.

ACTIVITY - Neuroprotective; Nootropic.

MECHANISM OF ACTION - Gene therapy; **Human** protein (Anta)gonist; Antisense therapy. No biological data given.

USE - The nucleic acid molecules are useful for diagnosis, drug screening, clinical trial monitoring, the treatment of biological disorders, imbalances disorder and mental disorders, and cosmetic and nutriceutical applications. The nucleic acid molecules are useful as hybridization probe, assessing gene expression pattern, polymorphisms identification, drug screening, and pharmacogenomics. NHP oligonucleotides can be used for molecular mutagenesis or evolution of protein, generation of antibodies as reagent in diagnostic assay, identification of other cellular gene product related to a NHP as reagents in assays for screening for compound, chromosome mapping and gene therapy.

EXAMPLE - No example given. (17 pages)

L23 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2003:254176 HCAPLUS

DOCUMENT NUMBER:

138:283310

TITLE:

Protein and cDNA sequences of a human

protein kinase

INVENTOR(S):

Walke, D. Wade; Hilbun, Erin; Donoho,

Gregory; Turner, C. Alexander, Jr. Lexicon Genetics Incorporated, USA

PATENT ASSIGNEE(S): SOURCE:

U.S., 11 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6541252	В1	20030401	US 2001-854856	20010514
PRIORITY APPLN. INFO.:			US 2000-206015P P	20000519

The invention provides protein and cDNA sequences of a human AB protein that has structural similarity with animal protein kinases The invention further relates to the use of protein kinase in

therapeutic, diagnostic, and pharmacogenomic applications.

THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 61 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:813741 HCAPLUS

DOCUMENT NUMBER:

140:368195

TITLE:

A multicentre phase II trial of bryostatin-1 in

patients with advanced renal cancer

AUTHOR (S):

Madhusudan, S.; Protheroe, A.; Propper, D.; Han, C.;

Corrie, P.; Earl, H.; Hancock, B.; Vasey, P.; Turner, A.; Balkwill, F.; Hoare, S.; Harris,

A. L.

CORPORATE SOURCE:

Cancer Research UK Medical Oncology Unit, Churchill

Hospital, Oxford, UK

SOURCE:

British Journal of Cancer (2003), 89(8), 1418-1422

CODEN: BJCAAI; ISSN: 0007-0920

PUBLISHER:

Nature Publishing Group

DOCUMENT TYPE:

Journal English

LANGUAGE:

Protein kinase C (PKC) has a critical role in several signal transduction pathways, and is involved in renal cancer pathogenesis. Bryostatin-1 modulates PKC activity and has antitumor effects in preclin. studies. We conducted a multicenter phase II clin. trial in patients with advanced renal cancer to determine the response rate, immunomodulatory activity and toxicity of bryostatin-1 given as a continuous 24 h infusion weekly for 3 out of 4 wk at a dose of 25 μg m-2. In all, 16 patients were recruited (11 males and 5 females). The median age was 59 yr (range 44-68). Patients had been treated previously with nephrectomy (8) and/or interferon therapy (9) and/or hormone therapy (4) and/or radiotherapy (6). Eight, 5 and 3 patients had performance statuses of 0, 1 and 2, resp. total of 181 infusions were administered with a median of 12 infusions per patient (range 1-29). Disease response was evaluable in 13 patients. Three patients achieved stable disease lasting for 10.5, 8 and 5.5 mo, resp. No complete responses or partial responses were seen. Myalgia, fatique, nausea, headache, vomiting, anorexia, anemia and lymphopenia were the commonly reported side effects. Assessment of biol. activity of bryostatin-1 was carried out using the whole-blood cytokine release assay in six patients, two of whom had a rise in IL-6 levels 24 h after initiating bryostatin-1 therapy compared to pretreatment values. However, the IL-6 level was found to be significantly lower at day 28 compared to

the pretreatment level in all six patients analyzed. THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 33 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN L23

DUPLICATE 1

ACCESSION NUMBER: 2003-08154 BIOTECHDS

TITLE:

New human kinase proteins and

polynucleotides, useful for cosmetic and nutriceutical applications, drug screening, clinical trial monitoring, diagnosing or treating diseases associated with biological

disorders or imbalances;

vector-mediated gene transfer and expression in host cell for recombinant protein production and

gene therapy

AUTHOR:

YU X; XIE Q; ABUIN A; WALKE D W

PATENT ASSIGNEE: LEXICON GENETICS INC

PATENT INFO:

WO 2002090517 14 Nov 2002 APPLICATION INFO: WO 2002-US14669 8 May 2002

PRIORITY INFO: US 2001-289727 9 May 2001; US 2001-289727 9 May 2001

DOCUMENT TYPE:

Patent

LANGUAGE:

English

OTHER SOURCE:

WPI: 2003-103514 [09]

DERWENT ABSTRACT: AΒ

> NOVELTY - A substantially isolated protein having the kinase activity of a protein comprising a fully defined sequence of 479 (S2) or 94 (S4) amino acids given in the specification, is new. The protein is encoded by a nucleotide sequence that hybridizes to a sequence of 1440 (S1) or 285 (S3) base pairs (bp) fully defined in the specification, under highly stringent conditions.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an isolated nucleic acid molecule comprising: (a) the sequence of S1 or S3; (b) a nucleotide sequence that encodes the amino acid sequence of S2, and hybridizes under stringent conditions to the nucleotide sequence of S1 or its complement; or (c) a nucleotide sequence encoding the amino acid sequence of S2 or S4.

WIDER DISCLOSURE - Also disclosed are host cell expression systems, fusion proteins, polypeptides and peptides, antibodies to the encoded proteins and peptides, genetically engineered animals that either lack or over express the polynucleotides, agonists and antagonists of the proteins, and other compounds that modulate the expression or activity of the proteins encoded by the polynucleotides.

ACTIVITY - None given.

MECHANISM OF ACTION - Kinase Inhibitor; Kinase Stimulator; Gene Therapy.

USE - The polynucleotides, proteins, antibodies, agonists and antagonists of the proteins are useful for drug screening, clinical trial monitoring, and diagnosing or treating diseases or disorders associated with biological disorders or imbalances. The proteins and polynucleotides are also useful in cosmetic and nutriceutical applications, for identifying protein coding sequences and mapping a unique gene to a particular chromosome. The sequence of the polynucleotides and proteins can also be used as additional DNA markers for restriction fragment length polymorphism analysis, or in forensic biology.

EXAMPLE - No example given. (40 pages)

ANSWER 7 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN L23 DUPLICATE 2

ACCESSION NUMBER: 2002-20053 BIOTECHDS

TITLE:

Novel human kinase polynucleotide

encoding a protein that shares structural similarity with

animal kinases for therapeutic, diagnostic and

pharmacogenomic applications;

vector-mediated recombinant protein gene

transfer and expression in host cell for use in

diagnosis, therapy, pharmacogenetics, mapping, forensics,

DNA probe and DNA microarray

AUTHOR: HU Y; KIEKE J A; DONOHO G

PATENT ASSIGNEE: LEXICON GENETICS INC

PATENT INFO: WO 2002055685 18 Jul 2002

APPLICATION INFO: WO 2000-US47606 11 Dec 2000

PRIORITY INFO: US 2000-254744 11 Dec 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-566739 [60]

AB DERWENT ABSTRACT:

NOVELTY - A human kinase polynucleotide (I) encoding a protein that shares structural similarity with animal kinases , selected from a polynucleotide that encodes a sequence of 1036 amino acids fully defined in the specification, and a polynucleotide that hybridizes under highly stringent conditions to a sequence of 3111 base pairs fully defined in the specification or its complement, is new.

WIDER DISCLOSURE - Disclosed are: (1) a host cell expression system expressing (I); (2) a protein encoded by (I); (3) a fusion protein comprising the protein encoded by (I); (4) antibodies or anti-idiotypic antibodies that binds specifically to the protein encoded by (I); (5) a genetically engineered animal that either lacks or overexpresses (I); (6) antagonists or agonists of the protein encoded by (I); (7) a compound that modulates the expression or activity of the protein encoded by (I); (8) a pharmaceutical formulation and treatment of biological disorders; (9) a protein that is functionally equivalent to the protein encoded by (I); and (10) a deoxyribonucleic acid (DNA) vector that contains the human kinase coding sequences and/or their complements.

USE - (I) is useful in therapeutic, diagnostic and pharmacogenomic applications and for identifying compounds that modulate, i.e. act as agonists or antagonists of the gene expression or gene product activity. (I) is useful for the identification of protein coding sequences, for mapping a unique gene to a particular chromosome, as additional DNA markers for restriction fragment length polymorphism (RFLP) analysis and in forensic biology, for screening libraries, isolating clones, preparing, cloning and sequencing templates, as hybridization probes, in microarrays or other assay formats, to screen collections of genetic material from patients who have a particular medical condition, to identify mutations associated with a particular disease and also as a diagnostic or prognostic assay. (I) is useful for the detection of mutant human proteins, or inappropriately expressed proteins for the diagnosis of disease, for screening for drugs effective in the treatment of the symptomatic or phenotypic manifestations of perturbing the normal function of the protein in the body, for generation of antibodies, for identification of other cellular gene products related to the protein, and as reagents in assays for screening for compounds that can be used as pharmaceutical agents in the therapeutic treatment of mental, biological or medical disorders and diseases.

EXAMPLE - No suitable example given. (41 pages)

L23 ANSWER 8 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN DUPLICATE 3

ACCESSION NUMBER: 2002-19616 BIOTECHDS

TITLE: Novel nucleic acid molecule encoding a human kinase, useful in therapeutic, diagnostic and

pharmacogenomic applications, as DNA markers for restriction fragment length polymorphism analysis and in forensic biology

recombinant enzyme protein and agonist and
antagonist use in disease therapy and gene therapy

AUTHOR: WALKE D W; MARICAR M; YU X; FRIDDLE C J

PATENT ASSIGNEE: LEXICON GENETICS INC

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PATENT INFO: WO 2002046428 13 Jun 2002

APPLICATION INFO: WO 2000-US48533 7 Dec 2000 PRIORITY INFO: US 2000-251941 7 Dec 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-527921 [56]

AB DERWENT ABSTRACT:

NOVELTY - An isolated nucleic acid molecule (I) comprising a nucleotide sequence encoding a sequence (S1) of 424 amino acids fully defined in the specification, and hybridizes under stringent conditions to a sequence (S2) of 1275 nucleotides fully defined in the specification, or its complement, is new.

wide disclosure and disclosed are: (1) a host cell expression system expressing (I); (2) a protein encoded by (I); (3) a fusion protein comprising the protein encoded by (I); (4) antibodies or anti-idiotypic antibodies to the protein encoded by (I); (5) a genetically engineered animal that either lacks or overexpresses (I); (6) antagonists or agonists of the protein encoded by (I); (7) a compound that modulates the expression or activity of the protein encoded by (I); (8) a pharmaceutical formulation and method for treating biological disorders; (9) a protein that is functionally equivalent to the protein encoded by (I); and (10) a DNA vector that contains the human kinase coding sequences and/or their complements.

USE - (I) is useful in therapeutic, diagnostic and pharmacogenomic applications, and for identifying compounds that modulate, i.e., act as agonists or antagonists of the gene expression or gene product activity. (I) is useful for the identification of protein coding sequences, for mapping a unique gene to a particular chromosome, as additional DNA markers for restriction fragment length polymorphism (RFLP) analysis and in forensic biology, for screening libraries, isolating clones, preparing, cloning and sequencing templates, as hybridization probes, in microarrays or other assay formats, to screen collections of genetic material from patients who have a particular medical condition, to identify mutations associated with a particular disease and also as a diagnostic or prognostic assay. (I) is useful for the detection of mutant human proteins, or inappropriately expressed proteins for the diagnosis of disease, for screening for drugs effective in the treatment of the symptomatic or phenotypic manifestations of perturbing the normal function of the protein in the body, for generation of antibodies, for identification of other cellular gene products related to the protein, and as reagents in assays for screening for compounds that can be used as pharmaceutical agents in the therapeutic treatment of mental, biological or medical disorders and diseases.

EXAMPLE - None given. (37 pages)

L23 ANSWER 9 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN ACCESSION NUMBER: 2002-20038 BIOTECHDS

TITLE:

Novel human kinase polynucleotide useful

in therapeutic, diagnostic and pharmacogenomic applications;

recombinant enzyme protein production via
plasmid expression in host cell use in disease

therapy and gene therapy

AUTHOR: FRIDDLE C J; HILBUN E; MATHUR B; TURNER C A

PATENT ASSIGNEE: LEXICON GENETICS INC
PATENT INFO: WO 2002042438 30 May 2002
APPLICATION INFO: WO 2000-US43825 20 Nov 2000
PRIORITY INFO: US 2000-252011 20 Nov 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-566563 [60]

AB DERWENT ABSTRACT:

NOVELTY - A human kinase polynucleotide (I) selected from a polynucleotide comprising a 2079 base pair sequence (S1) that

encodes a 692 or 817 amino acid sequence (S2), a polynucleotide that hybridizes to a 2454 base pair sequence (S3) or its complement, and a polynucleotide comprising at least 24 contiguous base pairs from S3, where S1, S2 or S3 is fully defined in the specification, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an isolated **expression** vector (II) comprising a promoter element operatively positioned to **express** a transcript encoding the 817 amino acid sequence.

WIDER DISCLOSURE - Also disclosed are: (1) a host cell expression system expressing (I); (2) a protein encoded by (I); (3) a fusion protein comprising the protein encoded by (I); (4) antibodies or anti-idiotypic antibodies to the protein encoded by (I); (5) a genetically engineered animal that either lacks or over expresses (I); (6) antagonists or agonists of the protein encoded by (I); (7) a compound that modulates the expression or activity of the protein encoded by (I); (8) a pharmaceutical formulation and method for treating biological disorders; and (9) a protein that is functionally equivalent to the protein encoded by (I).

USE - (I) is useful in therapeutic, diagnostic and pharmacogenomic applications, and for identifying compounds that modulate, i.e., act as agonists or antagonists of the gene expression or gene product activity. (I) is useful for the identification of protein coding sequences, for mapping a unique gene to a particular chromosome, as additional DNA markers for restriction fragment length polymorphism (RFLP) analysis and in forensic biology, for screening libraries, isolating clones, preparing cloning and sequencing templates, as hybridization probes, in microarrays or other assay formats, to screen collections of genetic material from patients who have a particular medical condition, to identify mutations associated with a particular disease and also as a diagnostic or prognostic assay. (I) is useful for the detection of mutant human proteins, or inappropriately expressed proteins for the diagnosis of disease, for screening for drugs effective in the treatment of the symptomatic or phenotypic manifestations of perturbing the normal function of the protein in the body, for generation of antibodies, for identification of other cellular gene products related to the protein, and as reagents in assays for screening for compounds that can be used as pharmaceutical agents in the therapeutic treatment of mental, biological or medical disorders and diseases.

EXAMPLE - None given. (43 pages)

L23 ANSWER 10 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN ACCESSION NUMBER: 2002-12398 BIOTECHDS

TITLE: Nove

Novel polynucleotide encoding novel human protein sharing structural similarity with animal kinases e.g. serine-threonine, calcium/calmodulin-dependent, and myosin light chain kinases, useful as probes and primers;

vector-mediated gene transfer, **expression** in host cell, antibody, antisense oligonucleotide and ribozyme for **recombinant** protein production,

drug screening and gene therapy

AUTHOR: FRIDDLE C J; HILBUN E; NEPOMNICHY B; HU Y

PATENT ASSIGNEE: LEXICON GENETICS INC

PATENT INFO: WO 2002018555 7 Mar 2002

APPLICATION INFO: WO 2000-US26776 31 Aug 2000

PRIORITY INFO: US 2000-229280 31 Aug 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-292200 [33]

AB DERWENT ABSTRACT:

NOVELTY - An isolated novel **human** protein (NHP) encoding nucleic acid, where the NHP shares structural similarity with animal **kinases** e.g. serine-threonine, calcium/calmodulin-dependent, and

myosin light chain kinases, is new.

DETAILED DESCRIPTION - An isolated novel human protein (NHP) encoding nucleic acid, where the NHP shares structural similarity with animal kinases e.g. serine-threonine, calcium/calmodulin-dependent, and myosin light chain kinases, is new. The NHP nucleic acid comprises a nucleotide sequence encoding a fully defined sequence of 683 (S2), 654 (S4), 388 (S7) and 398 (S9) amino acids as given in the specification, and which hybridizes under stringent conditions to a fully defined sequence of 2052 (S1) or 1167 (S6) nucleotides as given in specification, or its complement. An INDEPENDENT CLAIM is also included for an isolated nucleic acid molecule that comprises at least 24 contiguous bases of (S6).

WIDER DISCLOSURE - The following are disclosed: (1) novel human proteins (NHP) having a fully defined sequence of (S2), (S4), (S7) or (S9) encoded by NHP polynucleotides where the proteins are useful for generating antibodies, reagents in diagnostic assays, identification of other cellular gene products related to NHP, as reagents in assays for screening compounds that can be used as pharmaceutical reagents for treating mental, biological or medical disorders and diseases; (2) a nucleic acid selected from: (a) a sequence that encode mammalian homologs of NHP including the specifically described NHPs and the NHP gene products (b) a sequence that encode one or more portions of the NHPs that correspond to functional domains, and the polypeptide products specified by such nucleotide sequences (c) a sequence that encode mutant versions, engineered or naturally occurring, of the described NHPs in which all or part of at least one domain is deleted or altered, and the polypeptide products specified by such nucleotide sequences (d) a sequence that encode fusion proteins containing a coding region from an NHP or one of its domains (e.g. receptor or ligand binding domain) fused to another peptide or polypeptide, or (e) therapeutic or diagnostic derivatives of the polynucleotides; (3) agonist and antagonist of NHPs; (4) compounds that modulate the expression or activity of NHPs and nucleotide sequences (nucleotide constructs) that can be used to inhibit the expression of NHP (e.g., antisense, ribozyme molecules, etc.,) or to promote the expression of NHP; (5) transgenic animals that express NHP transgene or knock-outs that do not express a functional NHP; (6) processes of identifying compounds that modulate i.e., act as agonist or antagonist of NHP expression and/or NHP activity; (7) antibodies against NHP and idiotypic antibodies against anti-NHP antibodies; (8) fusion proteins comprising NHP protein; (9) degenerate nucleic acid variants of the NHP polynucleotide sequences; (10) DNA vectors that contain any of the NHP coding sequences and/or their complements; (11) genetically engineered host cells expressing NHP coding sequences operatively associated with a regulatory element; (12) analogues, derivatives and NHP homologues from other species; (13) proteins that are functionally equivalent to NHP encoded by the above described nucleotide sequences; and (14) pharmaceutical formulations comprising the NHP polynucleotide sequences.

BIOTECHNOLOGY - Isolation: The NHP polynucleotides were complied from sequences available in GENBANK, and cDNAs generated from kidney, testis, trachea, esophagus, pituitary, human gene trapped products ((S2) and (S4)) or bone marrow and skeletal muscle mRNAs.

ACTIVITY - None given. No biological data is given.

MECHANISM OF ACTION - Gene therapy. No biological data is given.

USE - The NHP polynucleotide sequences that encode NHPs sharing structural similarity with animal kinases including NIMA (never in mitosis A) related kinases, serine-threonine kinases, calcium/calmodulin-dependent kinases, and myosin light chain kinases, when knocked out provide a method for identifying phenotypic expression of the particular gene as well as a method of assigning function to previously unknown genes, for identifying coding sequence and mapping a unique gene to a particular chromosome and in the identification of biologically relevant splice junctions.

Complementary sequences of (I) that hybridize to (I) can be used in conjunction with PCR to screen libraries, isolate clones and prepare cloning and sequencing templates. Such oligonucleotides can also be used as hybridization probes for screening libraries, for assessing gene expression patterns. The probes are useful for identification, selection and validation of novel molecular targets for drug discovery. Labeled NHP nucleotide probes can be used to screen a human genomic library which is helpful for identifying polymorphisms, determining the genomic structure of a given locus/allele and designing diagnostic tests. The probe sequences also have use in defining and monitoring both drug action and toxicity. Oligonucleotides complementary to NHPs may encode or act as NHP antisense molecules, or may be used as part of ribozyme and/or triple helix sequences. Addressable arrays comprising the NHP polynucleotides can be used to identify and characterize the temporal and tissue expression of a gene. The use of addressable arrays comprising the NHP polynucleotide sequence provide detailed information about transcriptional changes involved in specific pathway, potentially leading to the identification of novel components or gene functions that manifest themselves as novel phenotypes. Microarray formats comprising NHP polynucleotide sequences can be used to screen collections of genetic material from patients who have a particular medical condition. The sequences are also useful for identifying mutations associated with a particular disease and also as a prognostic or diagnostic assay. (I) is also useful in the molecular mutagenesis/evolution of proteins that are at least partially encoded by the described novel sequences.

EXAMPLE - None given. (46 pages)

ANSWER 11 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN L23 DUPLICATE 4

ACCESSION NUMBER: 2002-04068 BIOTECHDS

TITLE:

New nucleic acid molecules encoding new human

proteins, useful in diagnosis, drug screening, clinical trails monitoring, treatment of physiological disorders and

cosmetic or nutriceutical applications; vector-mediated kinase gene transfer and

expression in host cell, antibody, DNA probe, DNA primer and transgenic animal for disease diagnosis and

gene therapy

AUTHOR:

Hu Y; Nepomnichy B; Wang X; Donoho G; Scoville J;

Walke D W

PATENT ASSIGNEE: Lexicon-Genetics

LOCATION: PATENT INFO:

The Woodlands, TX, USA. WO 2001081557 1 Nov 2001 APPLICATION INFO: WO 2001-US13149 24 Apr 2001

PRIORITY INFO: US 2000-201227 1 May 2000; US 2000-199499 25 Apr 2000

DOCUMENT TYPE:

Patent English

LANGUAGE:

WPI: 2002-034442 [04]

OTHER SOURCE: A nucleic acid (I) encoding a new human kinase (II) AΒ

with a 1,545 or 1,224 bp DNA sequence fully defined encoding a 514, 407 or 396 amino acid protein sequence fully defined is claimed. Also disclosed as new are: vectors containing (I); host cell containing (I); fusion proteins containing (I); antibodies and anti-idiotype for (I); transgenic animals that lack or overexpress (I); agonist and antagonist of (I); and compounds that modulate the expression or activity (I) gene was isolated by polymerase chain reaction using DNA of (I). primers. (I) can be used for diagnosis, drug screening, clinical trail monitoring, physiological disorder therapy and cosmetic or nutriceutical applications. (I) can also be used for gene mapping and as a DNA probe for screening libraries and assessing gene expression profiles and for the detection of mutants for disease diagnosis. (I) is also useful in pharmacogenomics. (44pp)

L23 ANSWER 12 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

DUPLICATE 5

ACCESSION NUMBER: 2002-01107 BIOTECHDS

TITLE: New polynucleotides encoding human proteins that

share sequence similarity with animals kinases e.g.
G-protein coupled receptor kinases, useful for drug
screening, diagnosis and in gene therapy of biological
disorders;

involving vector-mediated gene transfer for expression in host cell, agonist, antagonist,

antisense, ribozyme and antibody

AUTHOR: Walke D W; Wilganowski N L; Turner Jr C A

PATENT ASSIGNEE: Lexicon-Genetics

LOCATION: The Woodlands, TX, USA.

PATENT INFO: WO 2001068869 20 Sep 2001

APPLICATION INFO: WO 2001-US7500 8 Mar 2001

PRIORITY INFO: US 2000-188449 10 Mar 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2001-570872 [64]

An isolated nucleic acid molecule (I) comprising a nucleotide sequence encoding new human proteins (NHPs), in particular proteins that share sequence similarity with animal kinases including G-protein coupled receptor kinases, of 553 or 353 amino acids and that hybridizes under stringent conditions to a nucleotide sequence of 1,662 bp or its complement, is claimed. Also claimed is an isolated nucleic acid molecule comprising at least 24 contiguous bases of the sequence. NHP oligonucleotides are useful as hybridization probes for screening libraries and assessing gene expression patterns. Sequences derived from regions adjacent to the intron/exon boundaries of NHP gene can be used to design DNA primers that can be used in prognostics, diagnostics and pharmacogenomics. The NHP nucleotide sequences are also useful in drug screening and the nucleotide construct encoding NHP products are useful in gene therapy for modulating NHP expression. NHP products can be used to genetically engineer host cells to express NHP products in vivo, these genetically engineered cells function as bioreactors in the body. NHP sequences are useful in gene expression and DNA microarrays. (34pp)

L23 ANSWER 13 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN DUPLICATE 6

ACCESSION NUMBER: 2001-15821 BIOTECHDS

TITLE: Isolated nucleic acids encoding novel human

proteins useful for the treatment of disease and as probes

for testing and detection;

recombinant kinase and encoding sense

and antisense DNA for use in therapy and gene therapy and

drug screening

AUTHOR: Walke D W; Hu Y; Nepomnichy B; Turner Jr C A;

Zambrowicz B

PATENT ASSIGNEE: Lexicon-Genetics

LOCATION: The Woodlands, TX, USA.

PATENT INFO: WO 2001061016 23 Aug 2001

APPLICATION INFO: WO 2001-US5356 15 Feb 2001

PRIORITY INFO: US 2000-184014 22 Feb 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2001-502793 [55]

AB Isolated nucleic acid molecules (NAMs) encoding new human proteins (kinases) are claimed. Also claimed are: a NAM (I) having at least 24 contiguous bases of a 3,108 bp sequence or that hybridizes to this sequence under stringent conditions or that encodes a 1,035 amino acid protein sequence (disclosed); NAM (II) comprising a sequence encoding a 1,214 amino acid protein; a NAM (III) having a

sequence encoding a 1,007 amino acid protein sequence; a NAM (IV) comprising at least 24 contiguous bases of a 1,007 bp sequence or that hybridizes to it under stringent conditions or that encodes a 576 amino acid sequence; a NAM (V) having a sequence encoding a 560 amino acid sequence; and a NAM (VI) comprising a sequence encoding a 520 amino acid protein sequence. The proteins are mammal transporter proteins useful for therapy and as drug targets for drug discovery. Protein and DNA sequences are disclosed. (I) to (VI) can be used in sense or antisense gene therapy and as probes for diagnosis. Transgenic animals, fusion proteins, antibodies, agonists and antagonists are disclosed. (70pp)

L23 ANSWER 14 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

DUPLICATE 7

ACCESSION NUMBER: 2001-13012 BIOTECHDS

TITLE: Novel isolated human protease polynucleotide that

shares structural similarity with animal kinases including calcium/calmodulin-dependent protein kinases and serine/threonine protein kinases

, useful in therapeutics;
 for use in gene therapy

AUTHOR: Donoho G; Scoville J; Turner Jr C A; Friedrich G;

Zambrowicz B; Abuin A; Sands A T

PATENT ASSIGNEE: Lexicon-Genetics

LOCATION: The Woodlands, TX, USA.

PATENT INFO: WO 2001042435 14 Jun 2001

APPLICATION INFO: WO 2000-US33362 8 Dec 2000

PRIORITY INFO: US 1999-169769 9 Dec 1999

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2001-381688 [40]

AB An isolated human protein-kinase (EC-2.7.1.37)

polynucleotide (NHP) (I) selected from a polynucleotide comprising at least 24 contiguous bases of a sequence (S) comprising 1,158 bp, a sequence that encodes a 385 0r 356 amino acid sequence, and a sequence that hybridizes under stringent conditions to S or its complement, is claimed. (I) is useful in therapeutic, diagnostic and pharmacogenomic applications. (I) is useful for the detection of mutant NHP, or inappropriately expressed NHPs for the diagnosis of a disease. (I) is useful for drug screening (or high throughput screening of combinatorial libraries) effective in the treatment of symptomatic or phenotypic manifestations of perturbing the normal function of NHP in the body. (I) is useful in conjunction with polymerase chain reaction to screen libraries, isolate clones, and prepare cloning and sequencing templates. (I) is useful as hybridization probe for screening libraries, and assessing gene expression patterns. (31pp)

L23 ANSWER 15 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN DUPLICATE 8

ACCESSION NUMBER: 2001-08848 BIOTECHDS

TITLE: New isolated human kinase polynucleotide

useful for generating antibodies, as reagents in diagnostic assays and for screening for compounds useful for treating

mental, biological or medical diseases;

vector-mediated expression in host cell for

enzyme production and gene therapy

AUTHOR: Donoho G; Turner C A; Nehls M; Friedrich G;

Zambrowicz B: Sands A T

PATENT ASSIGNEE: Lexicon-Genetics

LOCATION: The Woodlands, TX, USA.

PATENT INFO: WO 2001023579 5 Apr 2001

APPLICATION INFO: WO 2000-US26621 27 Sep 2000

PRIORITY INFO: US 1999-156511 28 Sep 1999

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2001-266166 [27]

An isolated human kinase polynucleotide (I) containing a polynucleotide with 24 bases of a DNA sequence (S) with 1,041 bp, a DNA sequence encoding a 347 amino acid protein or a DNA sequence that hybridizes to (S) is claimed. Also claimed are: an isolated nucleic acid molecule (II) encoding a sequence with 315 amino acids; a protein (P) encoded by (I); antibodies to (P); a host cell expression system containing (I); transgenic animals, lacking or expressing (I); an antagonist or agonist of (P); degenerate nucleic acid variants of (I); and a pharmaceutical formulation for treating biological disorders. The above can be used for the detection of mutant human kinase for the diagnosis of diseases and gene therapy. (I) can be used for drug screening and for the generation of antibodies, as reagents in diagnostic assays and are useful for treating mental, biological or medical disorders and diseases. (38pp)

L23 ANSWER 16 OF 20 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2001-14671 BIOTECHDS

TITLE: Human kinase protein and polynucleotides

encoding the same;

involving vector-mediated gene transfer for expression in host cell, antibody, agonist and

antagonist

AUTHOR: Donoho G; Hilbun E; Turner Jr C A;

Friedrich G; Zambrowicz B; Sands A T

PATENT ASSIGNEE: Lexicon-Genetics

LOCATION: The Woodlands, TX, USA.

PATENT INFO: WO 2001053493 26 Jul 2001

APPLICATION INFO: WO 2001-US2120 18 Jan 2001

PRIORITY INFO: US 2000-176690 18 Jan 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2001-442260 [47]

AB An isolated nucleic acid molecule (I) comprising at least 24 contiguous bases of a 1,269 bp sequence, is claimed. Also claimed re: an isolated nucleic acid molecule (II) comprising a nucleotide sequence that encodes a 422 amino acid sequence or its complement; and an isolated nucleic acid. (I) can be used to screen libraries, isolate clones and prepare cloning and sequencing templates and as hybridization probes for screening libraries. (II) and (III) are useful as therapeutics. Also disclosed are: novel proteins encoded by (III); agonists and antagonists of the NHPs; processes for identifying compounds that modulate the NHPs; DNA vectors; genetically engineered host cells; and antibodies. (33pp)

L23 ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:693529 HCAPLUS

DOCUMENT NUMBER:

135:268247

TITLE:

Protein and cDNA sequences of novel human

phospholipases homologs and uses thereof in diagnosis,

therapy and drug screening

INVENTOR(S):

Hu, Yi; Nepomnichy, Boris; Donoho, Gregory; Hilbun, Erin; Turner, C. Alexander, Jr.; Abuin,

Alejandro; Friedrich, Glenn; Zambrowicz, Brian; Sands,

Arthur T.

PATENT ASSIGNEE(S):

Lexicon Genetics Incorporated, USA

SOURCE:

PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

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PATENT INFORMATION:

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APPLICATION NO.
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                                           WO 2001-US7994
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         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
             ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
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PRIORITY APPLN. INFO.:
                                             US 2000-189693P
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                                             WO 2001-US7994
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This invention provides protein and cDNA sequences for newly identified AB human proteins, designated NHPs, which shares structural similarity with animal phospholipases, including phospholipases C δ -4. The NHPs are novel proteins that are **expressed** in, inter alia, human cell lines and human fetal and adult brain, cerebellum, spinal cord, thymus, spleen, testis, thyroid, adrenal gland, small intestine, colon, adipose, rectum, and placenta cells. In one embodiment, the invention relates to diagnostic assays for detecting diseases associated with inappropriate NHP activity or levels. Also disclosed are methods for utilizing NHP in drug screening assays and in therapy directed against diseases associated with inappropriate NHP activity or levels.

L23 ANSWER 18 OF 20 MEDLINE on STN DUPLICATE 9

MEDLINE ACCESSION NUMBER: 95287645 DOCUMENT NUMBER:

PubMed ID: 7769843

TITLE:

Characterization of a multidrug resistant human

erythroleukemia cell line (K562) exhibiting spontaneous

resistance to 1-beta-D-arabinofuranosylcytosine.

Grant S; Turner A; Nelms P; Yanovich S AUTHOR:

CORPORATE SOURCE:

Department of Medicine, Medical College of Virginia,

Richmond 23298, USA.

CONTRACT NUMBER:

1RO1 CA63753 (NCI)

CA-16059 (NCI)

SOURCE:

Leukemia : official journal of the Leukemia Society of America, Leukemia Research Fund, U.K, (1995 May) 9 (5)

808-14.

Journal code: 8704895. ISSN: 0887-6924.

PUB. COUNTRY:

ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English LANGUAGE:

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199507

ENTRY DATE:

Entered STN: 19950713

Last Updated on STN: 19970203 Entered Medline: 19950706

We have assessed the response of a previously characterized multidrug AΒ resistant (MDR) human erythroleukemia cell line (K562R) to the nucleoside analog antimetabolite 1-beta-D-arabinofuranosylcytosine (ara-C). This cell line has been subjected to selection pressure by intermittent exposure to daunorubicin, but not ara-C, since its initial isolation. In comparison to the parental line (K562S), K562R were

approximately 15-fold more resistant to ara-C as determined by 3H-dThd incorporation, MTT dye reduction and clonogenicity. Following a 4-h exposure to 10 microM ara-C, K562S accumulated approximately seven times more ara-CTP, and incorporated approximately 250% more ara-C into DNA than their resistant counterparts. The intracellular generation of ara-CTP was not significantly influenced by the cytidine deaminase inhibitor THU or the deoxycytidylate deaminase inhibitor dTHU (1 mM each) in either cell line. Rates of dephosphorylation of ara-CTP were equivalent in sensitive and resistant cells, as were intracellular levels of both ribonucleotide and deoxyribonucleotide triphosphates. However, K562R displayed a significant (ie 70%) reduction in the level of activity of the pyrimidine salvage pathway enzyme, deoxycytidine kinase (dCK), compared to K562S cells. In contrast to U937 leukemic cells, DNA extracted from K562S and K562R cells following exposure to 10 microM ara-C for 6 h did not exhibit the characteristic internucleosomal DNA cleavage on agarose gel electrophoresis typical of drug-induced apoptosis. Lastly, Northern analysis revealed equivalent levels of dCK message in the two cell lines. K562R represents an unusual example of a classical multidrug resistant human leukemic cell line exhibiting spontaneous cross-resistance to the antimetabolite ara-C, and may prove of value in attempts to understand the mechanism(s) by which human leukemic myeloblasts survive in vivo exposure to combination chemotherapeutic regimens containing drugs that are not classically associated with the multidrug resistance phenomenon.

MEDLINE on STN DUPLICATE 10 L23 ANSWER 19 OF 20

91328750 MEDLINE ACCESSION NUMBER: PubMed ID: 1867641 DOCUMENT NUMBER:

TITLE:

In vitro effects of bryostatin 1 on the metabolism and cytotoxicity of 1-beta-D-arabinofuranosylcytosine in

human leukemia cells.

Grant S; Boise L; Westin E; Howe C; Pettit G R; Turner AUTHOR:

A; McCrady C

Division of Hematology/Oncology, Medical College of CORPORATE SOURCE:

Virginia, Richmond 23298.

CONTRACT NUMBER: AICR88B36 (NIAID)

> CA04875 (NCI) RO1 CA35601 (NCI)

Biochemical pharmacology, (1991 Jul 25) 42 (4) 853-67. SOURCE:

Journal code: 0101032. ISSN: 0006-2952.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

Priority Journals FILE SEGMENT:

ENTRY MONTH: 199109

Entered STN: 19910929 ENTRY DATE:

> Last Updated on STN: 19970203 Entered Medline: 19910909

Bryostatin 1 is a macrocyclic lactone protein kinase C (PK-C) AΒ activator which has demonstrated promising antileukemic activity in preclinical studies. We have examined the effect of this agent on the metabolism and cytotoxicity of 1-beta-D-arabinofuranosylcytosine (ara-C) in both log phase and high-density human promyelocytic leukemia cells (HL-60). Exposure of low-density cells to 12.5 nM bryostatin 1 for 24 hr prior to a 4-hr incubation with 1 or 10 microM ara-C resulted in nearly a 2-fold increase in ara-CTP formation. When cells were maintained under high-cell density conditions (e.g. 5 x 10(6) cells/mL) for 24 hr prior to ara-C exposure, a 90% reduction in ara-CTP formation and ara-C DNA incorporation was observed. However, coincubation of high-density cells with bryostatin 1 for 24 hr increased ara-CTP formation 6- to 8-fold, yielding levels essentially equivalent to those achieved in low-density cells. Smaller (but still significant) increases in ara-C DNA incorporation were also noted. Enhancement of ara-CTP formation by bryostatin 1 occurred over a broad ara-C concentration range (0.1 to 100

microM), involved a temperature-dependent process, could not be mimicked by addition of hematopoietic growth factors, and was not related to neutralization of toxic or inhibitory substances in high-density medium. Exposure of cells to bryostatin 1 did not lead to morphologic or functional evidence of HL-60 cell maturation or an increase in cell viability, but did produce a decline in cellular proliferative activity as determined by thymidine and bromodeoxyuridine incorporation and cytofluorometric analysis. Bryostatin 1 did not exert its effects in high-density cells by inhibiting ara-C deamination or by interfering with ara-CTP dephosphorylation, but instead appeared to act by enhancing ara-C phosphorylation. Although cell-free extracts obtained from high-density cells exposed to bryostatin 1 exhibited levels of deoxycytidine kinase activity compared to controls, treated cells did display a significant decline in intracellular dCTP levels (e.g. 0.7 vs 1.3 pmol/10(6)), and nearly a 2-fold increase in ATP and UTP concentrations. Ara-CTP formation was also increased substantially by other PK-C activators including phorbol dibutyrate and mezerein (10-100 nM); this process was inhibited more than 70% by the PK-C inhibitor H-7 (50 microM), but not by the PK-C inhibitors staurosporine, tamoxifen, and HA1004. Finally, coadministration of ara-C and bryostatin 1 resulted in greater than expected inhibitory effects toward HL-60 cell clonogenic growth. (ABSTRACT TRUNCATED AT 400 WORDS)

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on STN

ACCESSION NUMBER: 91:459539 SCISEARCH

THE GENUINE ARTICLE: GA786

TITLE: INVITRO EFFECTS OF BRYOSTATIN-1 ON THE METABOLISM AND

CYTOTOXICITY OF 1-BETA-D-ARABINOFURANOSYLCYTOSINE IN

HUMAN LEUKEMIA-CELLS

AUTHOR: GRANT S (Reprint); BOISE L; WESTIN E; HOWE C; PETTIT G R;

TURNER A; MCCRADY C

CORPORATE SOURCE: VIRGINIA COMMONWEALTH UNIV, MED COLL VIRGINIA, DIV HEMATOL

> ONCOL, BOX 230, MCV STN, RICHMOND, VA, 23298 (Reprint); VIRGINIA COMMONWEALTH UNIV, MED COLL VIRGINIA, DEPT PHARMACOL & TOXICOL, RICHMOND, VA, 23298; ARIZONA STATE

UNIV, CANC RES INST, TEMPE, AZ, 85287

COUNTRY OF AUTHOR: USA

SOURCE: BIOCHEMICAL PHARMACOLOGY, (1991) Vol. 42, No. 4, pp.

853-867.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE LANGUAGE: **ENGLISH** REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB Bryostatin 1 is a macrocylic lactone protein kinase C (PK-C) activator which has demonstrated promising antileukemic activity in preclinical studies. We have examined the effect of this agent on the metabolism and cytotoxicity of 1-beta-D-arabinofuranosylctosine (ara-C) in both log phase and high-density human promyelocytic leukemia cells (HL-60). Exposure of low-density cells to 12.5 nM bryostatin 1 for 24 hr prior to a 4-hr incubation with 1 or 10-mu-M ara-C resulted in nearly a 2-fold increase in ara-CTP formation. When cells were maintained under high-cell density conditions (e.g. $5 \times 10(6)$ cells/mL) for 24 hr prior to ara-C exposure, a 90% reduction in ara-CTP formation and ara-C DNA incorporation was observed. However, coincubation of high-density cells with bryostatin 1 for 24 hr increased ara-CTP formation 6- to 8-fold, yielding levels essentially equivalent to those achieved in low-density cells. Smaller (but still significant) increases in ara-C DNA incorporation were also noted. Enhancement of ara-CTP formation by bryostatin 1 occurred over a broad ara-C concentration range (0.1 to 100-mu-M), involved a temperature-dependent process, could not be mimicked by addition of hematopoietic growth factors, and was not related to neutralization of toxic or inhibitory substances in high-density medium.

Exposure of cells of bryostatin 1 did not lead to morphologic or functional evidence of HL-60 cell maturation or an increase in cell viability, but did produce a decline in cellular proliferative activity as determined by thymidine and bromodeoxyuridine incorporation and cytofluorometric analysis. Bryostatin 1 did not exert its effects in high-density cells by inhibiting ara-C deamination or by interfering with ara-CTP dephosphorylations, but instead appeared to act by enhancing ara-C phosphorylation. Although cell-free extracts obtained from high-density cells exposed to bryostatin 1 exhibited levels of deoxycytidine kinase activity compared to controls, treated cells did display a significant decline in intracellular dCTP levels (e.g. 0.7 vs 1.3 pmol/10(6)), and nearly a 2-fold increase in ATP and UTP concentrations. Ara-CTP formation was also increased substantially by other PK-C activators including phorbol dibutyrate and mezerein (10-100 nM); this process was inhibited more than 70% by the PK-C inhibitor H-7 (50-mu-M), but not by the PK-C inhibitors staurosporine, tamoxifen, and HA1004. Finally, coadministration of ara-C and bryostatin 1 resulted in greater than expected inhibitory effects toward HL-60 cell clonogenic growth. These findings suggest that the novel agent bryostatin 1 induces biochemical perturbations in leukemic cells that favor ara-C activation, particularly in high-density cells exhibiting impaired ara-C nucleotide formation. They also raise the possibility that pharmacologic agents acting through second messenger pathways may modulate the metabolism of ara-C, and potentially other nucleoside analogs.

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T.4
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L23
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E TURNER A/AU

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                     Wnk1 kinase deficiency lowers blood pressure in
TITLE:
                     mice: a gene-trap screen to identify potential targets for
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                     Zambrowicz Brian P; Abuin Alejandro; Ramirez-Solis Ramiro;
AUTHOR:
                     Richter Lizabeth J; Piggott James; BeltrandelRio
                     Hector; Buxton Eric C; Edwards Joel; Finch Rick A;
                     Friddle Carl J; Gupta Anupma; Hansen Gwenn; Hu Yi; Huang
                     Wenhu; Jaing Crystal; Key Billie Wayne Jr; Kipp Peter;
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                     Robert; Potter David G; Qian Ny; Shaw Joseph; Schrick Jeff;
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455391 S HUMAN AND L1

L2

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                    Isaac; Vogel Peter; Walke Wade; Xu Nianhua; Zhu
                    Qichao; Person Christophe; Sands Arthur T
                    Lexicon Genetics, 8800 Technology Forest Place, The
CORPORATE SOURCE:
                    Woodlands, TX 77381, USA.. brian@lexgen.com
                    Proceedings of the National Academy of Sciences of the
                    United States of America, (2003 Nov 25) 100 (24) 14109-14.
                    Journal code: 7505876. ISSN: 0027-8424.
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                    Proceedings of the National Academy of Sciences of the
                    United States of America, (25 Nov 2003) 100/SUPPL. 2
                    (14109-14114).
                    Refs: 31
                    ISSN: 0027-8424 CODEN: PNASA6
                    United States
                    Journal; Article
                    018
                            Cardiovascular Diseases and Cardiovascular Surgery
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TITLE:

AUTHOR:

SOURCE:

COUNTRY:

LANGUAGE:

DOCUMENT TYPE:

FILE SEGMENT:

SUMMARY LANGUAGE:

on STN

ACCESSION NUMBER: 93346784 EMBASE

on STN ACCESSION NUMBER:

CORPORATE SOURCE:

DOCUMENT NUMBER: 1993346784

Molecular engineering of the pancreatic β-cell. TITLE: **AUTHOR:** Newgard C.B.; Hughes S.D.; Quaade C.; Beltrandelrio

H.; Gomez-Foix A.M.; Ferber S.

Gifford Lab. for Diabetes Research, Texas University SW CORPORATE SOURCE:

Medical Center, 5323 Harry Hines Blvd., Dallas, TX 75235,

United States

SOURCE: Journal of Laboratory and Clinical Medicine, (1993) 122/4

(356-363).

ISSN: 0022-2143 CODEN: JLCMAK

COUNTRY: United States

DOCUMENT TYPE: Journal; Conference Article

FILE SEGMENT: 003 Endocrinology 022 Human Genetics

LANGUAGE: English

L27 ANSWER 4 OF 57 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.

STN

ACCESSION NUMBER: 2004:64265 BIOSIS DOCUMENT NUMBER: PREV200400065655

TITLE: Wnkl kinase deficiency lowers blood pressure in

mice: A gene-trap screen to identify potential targets for

therapeutic intervention.

AUTHOR(S): Zambrowicz, Brian P. [Reprint Author]; Abuin, Alejandro;

Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott,

James; BeltrandelRio, Hector; Buxton, Eric C.;

Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-Qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-Zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu,

Qichao; Person, Christophe; Sands, Arthur T.

CORPORATE SOURCE: Lexicon Genetics, 8800 Technology Forest Place, The

Woodlands, TX, 77381, USA

brian@lexgen.com

SOURCE: Proceedings of the National Academy of Sciences of the

United States of America, (November 25 2003) Vol. 100, No.

24, pp. 14109-14114. print. ISSN: 0027-8424 (ISSN print).

DOCUMENT TYPE: LANGUAGE:

Article English

Entered STN: 28 Jan 2004 ENTRY DATE:

Last Updated on STN: 28 Jan 2004

L27 ANSWER 5 OF 57 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1997:294196 BIOSIS DOCUMENT NUMBER: PREV199799593399

TITLE: Regulation of insulin secretion from novel engineered

insulinoma cell lines.

AUTHOR (S): Hohmeier, Hans E.; Beltrandelrio, Hector; Clark,

Samuel A.; Henkel-Rieger, Rosemarie; Normington, Karl;

Newgard, Christopher B. [Reprint author]

CORPORATE SOURCE: Gifford Lab. Diabetes Research, Room Y8 212, Univ. Texas

Southwestern Med. Center, 5323 Harry Hines Blvd., Dallas,

TX 75235, USA

SOURCE: Diabetes, (1997) Vol. 46, No. 6, pp. 968-977.

CODEN: DIAEAZ. ISSN: 0012-1797.

DOCUMENT TYPE:

Article LANGUAGE: English

ENTRY DATE: Entered STN: 9 Jul 1997

Last Updated on STN: 9 Jul 1997

L27 ANSWER 6 OF 57 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation. on

ACCESSION NUMBER:

2003:1061760 SCISEARCH

THE GENUINE ARTICLE: 747KN

Wnk1 kinase deficiency lowers blood pressure in

mice: A gene-trap screen to identify potential targets for

therapeutic intervention

AUTHOR:

Zambrowicz B P (Reprint); Abuin A; Ramirez-Solis R;

Richter L J; Piggott J; BeltrandelRio H; Buxton

E C; Edwards J; Finch R A; Friddle C J; Gupta A; Hansen G; Hu Y; Huang W H; Jaing C; Key B W; Kipp P; Kohlhauff B; Ma Z Q; Markesich D; Payne R; Potter D G; Qian N; Shaw J;

Schrick J; Shi Z Z; Sparks M J; Van Sligtenhorst I

CORPORATE SOURCE:

; Vogel P; Walke W; Xu N H; Zhu Q C; Person C; Sands A T Lexicon Genet, 8800 Technol Forest Pl, The Woodlands, TX 77381 USA (Reprint); Lexicon Genet, The Woodlands, TX

77381 USA

COUNTRY OF AUTHOR:

SOURCE:

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE

UNITED STATES OF AMERICA, (25 NOV 2003) Vol. 100, No. 24,

pp. 14109-14114.

Publisher: NATL ACAD SCIENCES, 2101 CONSTITUTION AVE NW,

WASHINGTON, DC 20418 USA.

ISSN: 0027-8424.

DOCUMENT TYPE:

Article; Journal English

LANGUAGE:

28

REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L27 ANSWER 7 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101660 HCAPLUS

DOCUMENT NUMBER:

140:123408

TITLE: Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

LANGUAGE:

Journal English

L27 ANSWER 8 OF 57

HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101656 HCAPLUS

DOCUMENT NUMBER:

140:123407

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran

del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the

United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

English

L27 ANSWER 9 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

Journal

ACCESSION NUMBER:

2004:101651 HCAPLUS 140:123406

DOCUMENT NUMBER:

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

Journal English

L27 ANSWER 10 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101648 HCAPLUS

DOCUMENT NUMBER:

140:123405

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the

United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

DOCUMENT TYPE:

Journal English

LANGUAGE:

PUBLISHER:

HCAPLUS COPYRIGHT 2004 ACS on STN L27 ANSWER 11 OF 57

ACCESSION NUMBER:

2004:101646 HCAPLUS

DOCUMENT NUMBER:

140:123404

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L27 ANSWER 12 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101644 HCAPLUS

DOCUMENT NUMBER:

TITLE:

140:123403

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L27 ANSWER 13 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101642 HCAPLUS

DOCUMENT NUMBER:

140:123402

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe; Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

National Academy of Sciences

Journal English

L27 ANSWER 14 OF 57

HCAPLUS COPYRIGHT 2004 ACS on STN 2004:101639 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

140:123401

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal English

L27 ANSWER 15 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101632 HCAPLUS

DOCUMENT NUMBER: TITLE:

140:123400 Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran

del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

SOURCE:

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE: LANGUAGE:

Journal English

L27 ANSWER 16 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101629 HCAPLUS

DOCUMENT NUMBER:

140:123399

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in micef: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER: DOCUMENT TYPE:

LANGUAGE:

Journal English

L27 ANSWER 17 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN 2004:101626 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

140:123398

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel;

Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L27 ANSWER 18 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101624 HCAPLUS

DOCUMENT NUMBER:

140:123397

TITLE:

Wnkl kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, AUTHOR (S):

Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma;

Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

DOCUMENT TYPE:

Journal

English LANGUAGE:

L27 ANSWER 19 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101620 HCAPLUS

DOCUMENT NUMBER:

140:123396

Wnk1 kinase deficiency lowers blood pressure TITLE:

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, AUTHOR (S):

Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff,

Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

Journal

DOCUMENT TYPE:

LANGUAGE:

English

L27 ANSWER 20 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101618 HCAPLUS

DOCUMENT NUMBER:

140:123395

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, AUTHOR (S): Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran

> del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne,

Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

SOURCE:

PUBLISHER:

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE: Lexicon Genetics, The Woodlands, TX, 77381, USA

SOURCE: Proceedings of the National Academy of Sciences of the

United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal LANGUAGE: English

L27 ANSWER 21 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:101617 HCAPLUS

DOCUMENT NUMBER: 140:123394

TITLE: Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S): Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis,

Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE: Lexicon Genetics, The Woodlands, TX, 77381, USA

SOURCE: Proceedings of the National Academy of Sciences of the

United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal LANGUAGE: English

L27 ANSWER 22 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:101616 HCAPLUS

DOCUMENT NUMBER: 140:123393

TITLE: Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S): Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis,

Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE: Lexicon Genetics, The Woodlands, TX, 77381, USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal LANGUAGE: English

L27 ANSWER 23 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:101615 HCAPLUS

DOCUMENT NUMBER:

140:123392

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma;

Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

National Academy of Sciences Journal

English

L27 ANSWER 24 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

2004:101614 HCAPLUS

140:123391

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal English

L27 ANSWER 25 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

2004:101612 HCAPLUS 140:123390

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis,

Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma: Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff,

Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph;

AUTHOR(S):

Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the

United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

Journal

LANGUAGE: English

L27 ANSWER 26 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101610 HCAPLUS

DOCUMENT NUMBER:

140:123389

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal

English

L27 ANSWER 27 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101609 HCAPLUS

DOCUMENT NUMBER:

140:123388

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran

del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

LANGUAGE:

Journal English L27 ANSWER 28 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101608 HCAPLUS

AUTHOR(S):

DOCUMENT NUMBER:

140:123387

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis,

Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

Journal English

LANGUAGE:

L27 ANSWER 29 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101607 HCAPLUS

DOCUMENT NUMBER:

TITLE:

140:123386

Wnkl kinase deficiency lowers blood pressure

in micef: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L27 ANSWER 30 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101606 HCAPLUS

DOCUMENT NUMBER:

140:123385

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel;

Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal;

Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff,

Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

National Academy of Sciences

Journal English

L27 ANSWER 31 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101604 HCAPLUS 140:123384

DOCUMENT NUMBER:

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal

English

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

L27 ANSWER 32 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

2004:101603 HCAPLUS

140:123383

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

AUTHOR(S):

targets for therapeutic intervention Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis,

Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne,

Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Robert; Potter, David G.; Qian, Ny; Shaw, Joseph;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

DOCUMENT TYPE:

National Academy of Sciences

Journal

LANGUAGE: English

HCAPLUS COPYRIGHT 2004 ACS on STN L27 ANSWER 33 OF 57

2004:101602 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

140:123382

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal English

L27 ANSWER 34 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101597 HCAPLUS

DOCUMENT NUMBER:

140:123381

TITLE: Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences Journal

DOCUMENT TYPE:

LANGUAGE:

English

L27 ANSWER 35 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101594 HCAPLUS

DOCUMENT NUMBER:

140:123380

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in micef: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran

del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

Journal English

HCAPLUS COPYRIGHT 2004 ACS on STN L27 ANSWER 36 OF 57

ACCESSION NUMBER:

2004:101591 HCAPLUS

DOCUMENT NUMBER:

140:123379

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the

United States of America (2003), 100(24), 14109-14114 CODEN: PNASA6; ISSN: 0027-8424

National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

Journal English

L27 ANSWER 37 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2004:101590 HCAPLUS

140:123378

DOCUMENT NUMBER:

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

AUTHOR(S):

targets for therapeutic intervention Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis,

Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L27 ANSWER 38 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101587 HCAPLUS

DOCUMENT NUMBER:

140:123377

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice as an example of a gene-trap screen to identify potential targets for therapeutic

intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal English

L27 ANSWER 39 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN 2004:101584 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

140:123376

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice as an example of a gene-trap screen to identify potential targets for therapeutic

intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE:

English

L27 ANSWER 40 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101581 HCAPLUS

DOCUMENT NUMBER:

140:123375

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe; Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER: DOCUMENT TYPE:

Journal English

LANGUAGE:

L27 ANSWER 41 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:101576 HCAPLUS

DOCUMENT NUMBER:

140:123374

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the

United States of America (2003), 100(24), 14109-14114 CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

Journal English

L27 ANSWER 42 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96495 HCAPLUS

DOCUMENT NUMBER:

140:123373

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff. Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

SOURCE:

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER: DOCUMENT TYPE:

Journal

English LANGUAGE:

L27 ANSWER 43 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96494 HCAPLUS

DOCUMENT NUMBER: TITLE:

140:123372 Wnkl kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE: LANGUAGE:

Journal English

L27 ANSWER 44 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96492 HCAPLUS 140:123371

DOCUMENT NUMBER: TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L27 ANSWER 45 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96491 HCAPLUS

DOCUMENT NUMBER:

140:123370

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential AUTHOR (S):

targets for therapeutic intervention

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran

del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the

United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

Journal English

L27 ANSWER 46 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN 2004:96488 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

140:123369

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER: DOCUMENT TYPE:

Journal English

LANGUAGE:

L27 ANSWER 47 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96486 HCAPLUS

DOCUMENT NUMBER:

140:123368

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

National Academy of Sciences

Journal English

L27 ANSWER 48 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96485 HCAPLUS

DOCUMENT NUMBER:

140:123367

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

Journal English

L27 ANSWER 49 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

2004:96483 HCAPLUS 140:123366

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice as an example of a gene-trap screen to identify potential targets for therapeutic

intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L27 ANSWER 50 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96482 HCAPLUS

DOCUMENT NUMBER:

140:123365

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice as an example of a gene-trap screen to identify potential targets for therapeutic

intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltran del Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

Journal English

HCAPLUS COPYRIGHT 2004 ACS on STN L27 ANSWER 51 OF 57

ACCESSION NUMBER: DOCUMENT NUMBER:

2004:96481 HCAPLUS 140:123364

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice as an example of a gene-trap screen to identify potential targets for therapeutic

intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James; Beltrandel Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER: DOCUMENT TYPE:

LANGUAGE:

Journal

English

L27 ANSWER 52 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96472 HCAPLUS

DOCUMENT NUMBER:

140:123363

TITLE:

Wnk1 kinase deficiency lowers blood pressure in mice as an example of a gene-trap screen to identify potential targets for therapeutic

intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James;

Beltrandel Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal;

Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

National Academy of Sciences

DOCUMENT TYPE: LANGUAGE:

PUBLISHER:

Journal English

L27 ANSWER 53 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96469 HCAPLUS

DOCUMENT NUMBER: TITLE:

140:128551 Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S): Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis,

> Ramiro; Richter, Lizabeth J.; Piggott, James; Beltrandel Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER: DOCUMENT TYPE:

LANGUAGE:

English

2004:96467 HCAPLUS

L27 ANSWER 54 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

Journal

ACCESSION NUMBER: DOCUMENT NUMBER:

140:123362

TITLE:

Wnkl kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S): Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis,

> Ramiro; Richter, Lizabeth J.; Piggott, James; Beltrandel Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

Journal English

LANGUAGE:

L27 ANSWER 55 OF 57 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:96461 HCAPLUS

DOCUMENT NUMBER:

140:123361

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A a gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR(S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-Solis, Ramiro; Richter, Lizabeth J.; Piggott, James;

Beltrandel Rio, Hector; Buxton, Eric C.; Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma;

Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary Jean;

Van Sligtenhorst, Isaac; Vogel, Peter; Walke,

Wade; Xu, Nianhua; Zhu, Qichao; Person, Christophe;

Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal English

L27 ANSWER 56 OF 57

HCAPLUS COPYRIGHT 2004 ACS on STN

2003:955163 HCAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER:

140:106021

TITLE:

Wnk1 kinase deficiency lowers blood pressure

in mice: A gene-trap screen to identify potential

targets for therapeutic intervention

AUTHOR (S):

Zambrowicz, Brian P.; Abuin, Alejandro; Ramirez-solis,

Ramiro; Richter, Lizabeth J.; Piggott, James;

BeltrandelRio, Hector; Buxton, Eric C.;

Edwards, Joel; Finch, Rick A.; Friddle, Carl J.; Gupta, Anupma; Hansen, Gwenn; Hu, Yi; Huang, Wenhu; Jaing, Crystal; Key, Billie Wayne, Jr.; Kipp, Peter; Kohlhauff, Buckley; Ma, Zhi-qing; Markesich, Diane; Payne, Robert; Potter, David G.; Qian, Ny; Shaw, Joseph; Schrick, Jeff; Shi, Zheng-zheng; Sparks, Mary

Jean; Van Sligtenhorst, Isaac; Vogel, Peter; Walke, Wade; Xu, Nianhua; Zhu, Qichao; Person,

Christophe; Sands, Arthur T.

CORPORATE SOURCE:

SOURCE:

Lexicon Genetics, The Woodlands, TX, 77381, USA

Proceedings of the National Academy of Sciences of the United States of America (2003), 100(24), 14109-14114

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE: LANGUAGE:

Journal English

REFERENCE COUNT:

THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 57 OF 57 LIFESCI

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ACCESSION NUMBER:

2004:34133 LIFESCI

TITLE:

Wnk1 kinase deficiency lowers blood pressure in

mice: A gene-trap screen to identify potential targets for

therapeutic intervention

AUTHOR:

Zambrowicz, B.P.; Abuin, A.; Ramirez-Solis, R.; Richter,

L.J.; Piggott, J.; BeltrandelRio, H.; Buxton,

E.C.; Edwards, J.; Finch, R.A.; Friddle, C.J.; Gupta, A.; Hansen, G.; Hu, Y.; Huang, W.; Jaing, C.; Key Jr, B.W.; Kipp, P.; Kohlhauff, B.; Ma, Z.-Q.; Markesich, D.; Payne, R.; Potter, D.G.; Qian, N.; Shaw, J.; Schrick, J.; Shi, Z.-Z.; Sparks, M.J.; Van Sligtenhorst, I.; Vogel, P.; Walke, W.; Xu, N.; Zhu, Q.; Person, C.; Sands, A.T. Lexicon Genetics, 8800 Technology Forest Place, The Woodlands, TX 77381; E-mail: brian@lexgen.com Proceedings of the National Academy of Sciences, USA [Proc. Natl. Acad. Sci. USA], (20031125) vol. 100, no. 24, pp. 14109-14114. The sequences reported in this article have been deposited in the GenBank database (accession nos. CG472819-CG671551). All valid OSTs are available at www.lexicon- qenetics.com/omnibank/pnas2003/searc h.htm The reference list used to estimate OmniBank genome coverage and a genomewide view of gene-trap density along the mouse chromosomes can be viewed at w ww.lexicon-genetics.com/omnibank/pnas2003. ISSN: 0027-8424. Journal G English English (FILE 'HOME' ENTERED AT 10:04:50 ON 28 SEP 2004) FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 10:05:11 ON 28 SEP 2004 1239787 S KINASE? 455391 S HUMAN AND L1 6718512 S CLON? OR EXPRESS? OR RECOMBINANT 224730 S L2 AND L3 606832 S "FETAL BRAIN" OR CEREBELUM OR "BONE MARROW" 1358853 S THYMUS OR PANCREAS OR SPLEEN OR TESTIS 6015 S L4 AND L5 8577 S L4 AND L6 13888 S L7 OR L8 3209 S "NHP" 13 S L9 AND L10 11 DUP REM L11 (2 DUPLICATES REMOVED) E WALKE D W/AU 115 S E3-E6 E HILBUN E/AU 24 S E3 E DONOHO G/AU 149 S E3-E9 E TURNER A/AU 1250 S E3 1508 S L13 OR L14 OR L15 OR L16 6 S L9 AND L17 6 DUP REM L18 (0 DUPLICATES REMOVED) 13888 S L9 AND L4 11 S L12 AND L10 34 S L17 AND L4 20 DUP REM L22 (14 DUPLICATES REMOVED) E BELTRANDELRIO H/AU 84 S E3-E4

CORPORATE SOURCE:

DOCUMENT TYPE:

SUMMARY LANGUAGE:

FILE SEGMENT:

LANGUAGE:

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L24

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SOURCE:

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133	S	L24 OR L25
57	S	L4 AND L26
0	S	L10 AND L27
	133 57	133 S 57 S